Successful Farming

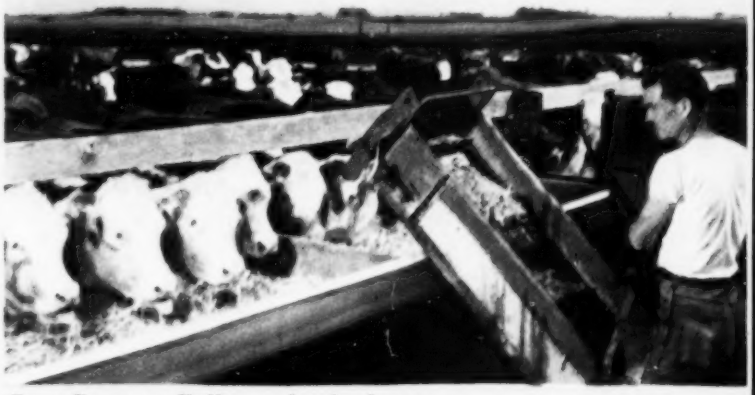
February 1954 · 25c

Complete report on easier feeding

Glenn Middleton: Overhead carrier system

John Williamson: Fence-bunk system

IT'S NEW! U.S.D.A.-Illinois beef-feeding study brings to you new facts on cutting feed-handling costs. See these 3 feeding systems inside

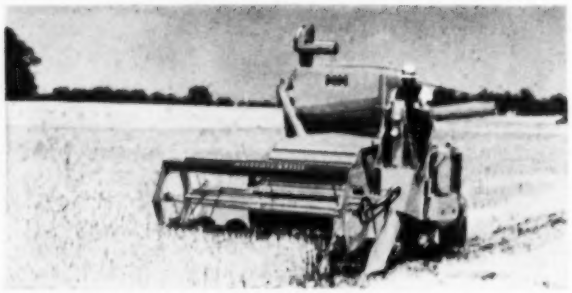


Gene Duncan: Fully mechanized system

you're self-propelled in every crop at FAR LESS COST than 'pull-behinds'

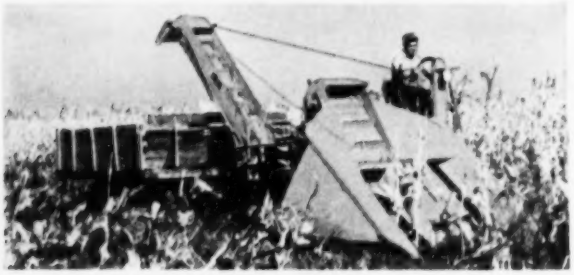
FIELD-CHOP SILAGE CROPS

You get silage ready for the silo in peak condition with this big-capacity, self-propelled MM Uni-Foragor. Interchangeable heads let you handle either row crops or hay crops.



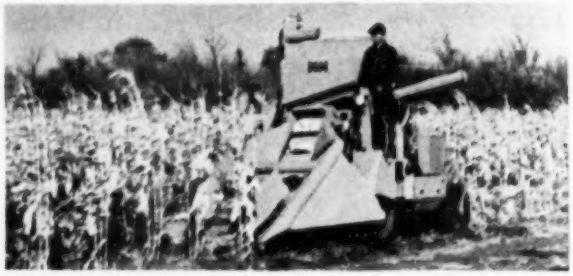
COMBINE GRAIN, BEAN and SEED CROPS

Harvest time is profit time with the MM Uni-Combine on the job! Think how much *faster and easier* combining can be when you enjoy the advantages of this self-propelled machine.



PICK and HUSK CORN

Here's 2-row corn husking at its self-propelled best! With this MM Uni-Huskor, you cover ground as never before . . . do a thorough job that helps get top yields from every acre.



PICK and SHELL CORN

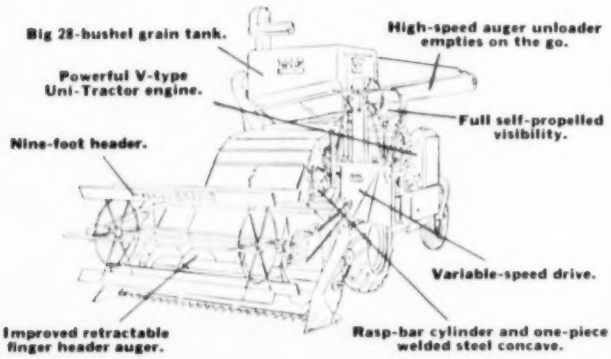
One fast trip through with this Uni-Picker Sheller, shells corn with up to 30% moisture content or more. You get your corn earlier, cut losses from corn borers or wind damage.

MINNEAPOLIS MOLINE MM MODERN MACHINERY

UNI-FARMOR

For speedy, high-capacity harvesting of *any* crop, you can't beat a self-propelled unit. And now, with the revolutionary new Minneapolis-Moline Uni-Farmor, you take the field with a self-propelled machine on every harvest job! And that's not all! The self-propelled Uni-Farmor actually costs you *far less* than the conventional tractor and "pull-behind" machines you'd need to do the same jobs. Your MM dealer can prove in black and white that you can *save* as much as $*1500 or more*, by buying the Uni-Farmor. Savings like *that* mean a *bigger* profit margin for you . . . *extra net earnings* from the land you farm. Get the facts for yourself. Mail the coupon below for complete illustrated information, today!

MINNEAPOLIS-MOLINE MINNEAPOLIS 1, MINNESOTA



Cut out and mail, today!

MINNEAPOLIS-MOLINE
MINNEAPOLIS 1, MINNESOTA

I'm interested in buying the MM Uni-Farmer with the harvesting attachments checked below. Please send me, without obligation, full information on these machines. I farm _____ acres.

☐ UNI-FORAGOR ☐ UNI-COMBINE
☐ UNI-PICKER SHELLER ☐ UNI-HUSKOR

I'd also like free literature on the MM machines I've listed below:

_____

_____

Name _____

RFD _____ Box _____

Post Office _____ State _____

Only these STRAIGHT *lugs with "wedge-in" Action give "The Greatest Pull on Earth!"*

Goodyear's STRAIGHT-lug Super-Sure-Grip is widely imitated—but a close look will show you where imitators fall down:

SUPER-SURE-GRIP'S RULER-STRAIGHT LUGS come closer together at shoulders, take "wedge-in" bites that *firm* loose soil—give "the greatest pull on earth!"

O-P-E-N C-E-N-T-E-R helps *straight* lugs bite deeper, pull better!

LONG EVEN WEAR—for *straight* lugs work evenly against soil, roll smoothly on road—and so *wear evenly*, last longer!

RE-LUGGING SAVINGS—for Super-Sure-Grip's vastly greater body strength keeps it *fit* to re-lug or retread—saves replacement!

When these four Goodyear features start working for you, saving time and money at every turn, you'll know why *more farmers surveyed prefer Super-Sure-Grips than the next 2 makes put together!* Why not talk things over with your helpful Goodyear dealer? Goodyear, Farm Tire Dept., Akron 16, Ohio.

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

FIRST in Traction • FIRST in Long Wear • FIRST in Popularity!

GOODYEAR

Super-Sure-Grip Tractor Tires

THERE'S A SPECIALLY DESIGNED GOODYEAR TIRE FOR EACH VEHICLE ON THE FARM

Note the striking, *sculptured* look of Textured White Celotex Ceiling Tile Board. It's a Celotex "exclusive"!

Install a beautiful ceiling like this for only $17*

with Celotex Tile Board

It's quick and easy—and so thrifty—to cover a cracked, ugly old ceiling . . . or install the ceiling in that new room you're planning to build. Simply put up Celotex Ceiling Tile Board—and presto!—you have a ceiling that's fresh, beautiful and excitingly "different."

Pre-decorated—no painting needed! Choice of square or rectangular panels in a range of rich, unusual textures and smart, decorator-styled colors—yours *only* in Celotex Ceiling Tile Board. And, you get extra insulation that helps keep rooms warmer in winter, cooler in summer. See it—buy it—at your Celotex dealer's! Mail coupon for new 32-page modernization book.

*Approximate cost of Celotex Ceiling Tile Board for average 10' x 14' room.

Send for new 32-page book, "97 Ideas for Improving Your Home." Shows how you can have a beautiful new ceiling easily and economically—gives dozens of other practical modernizing ideas, too. Mail coupon with 25¢ in coin. As a bonus you will also receive another booklet, "Better Farm Buildings."

Insist on genuine

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MAIL TODAY!

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120 S. LaSalle St., Chicago 3, Ill.

Send me the new Celotex modernization book, "97 Ideas for Improving Your Home," for which I enclose 25¢ in coin. Also send me, free, the booklet, "Better Farm Buildings."

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Successful Farming®

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

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Will your heirs be "snowed under" by estate settlement costs?

Often a man will work hard all his life to build up his farm — adding to it year by year and planning far ahead to establish a thriving, profitable farm operation for his family.

Then he dies before he has quite finished the job—and leaves his family an inheritance of trouble.

All at once they find themselves "snowed under" by federal estate taxes . . . state inheritance taxes . . . administration costs . . . probate costs . . . and a dozen other sudden (and often unexpected) obligations.

These costs and taxes may rise as high as twenty or thirty percent of the farm's net value—and most of them must be paid *in cash* soon after the owner's death. To raise this cash it is often necessary to sell part of the farm. And, as you know, property sold under pressure usually goes at a sacrifice.

There is a sound, practical way of making sure your heirs will inherit your farm estate without such serious loss. That is to have enough life insurance to meet the cash liabilities involved in settling your estate.

That way, you'll know that your wife and children will have the needed cash immediately, no matter *when* the need for it might arise. You'll know that they will be far more likely to receive all the property intended for them—and will be saved months or even years of trouble and worry.

The New York Life agent serving your county will be glad to explain how funds for estate settlement can be provided in your life insurance program—and help you work out an over-all plan for the protection of your farm, your family and yourself during the years to come. Why not get in touch with him today and talk it over?

THE NEW YORK LIFE AGENT
IN YOUR COUNTY
IS A GOOD MAN TO KNOW

NEW YORK LIFE
INSURANCE COMPANY
51 Madison Avenue, New York 10, N.Y.

New York Life, a mutual company, pays dividends to policyholders only. It is one of the strongest legal reserve companies in the world.

Farm Outlook®

Latest information on conditions, production, markets, and income prospects

Our economy—and you

What happens this spring will set the pattern for the remainder of this year. The American consumer holds the balance of power. *If he buys to his needs, all will be well; if he prefers to hold cash, production will slow down.*

You can expect good markets for livestock and livestock products this spring. Improvement is likely in prices of fed cattle; returns from hogs will be good; but prices of milk, eggs, and poultry likely will be off from last year's figures. *Prices of milk cows this winter have been the lowest in six years.*

Price tags will be a little lower this spring than last on many of the things you need for your farm and home. In fact, some items may be on the bargain counter for the first time in several years. Your cash will command more respect in the market place. *The time seems ripe for you to pick up the supplies you need for farm improvements.*

Dollar will buy more

You can count on lower costs of farm-family living this year. Retailers will be seeking your business, offering discounts on many items. The food you buy will cost less, house furnishings will be lower priced, clothing will cost less, prices of new cars are being cut by good trade-in allowances.

Price concessions are being made on all kinds of electrical appliances—refrigerators, ironers, washing machines, toasters. Television and radio sets are marked down. **How to cash in:** Shop around. If you have cash, the cost will be less than time payments—you save interest.

Fertilizers plentiful

All the commercial fertilizer you need for bigger yields on smaller acreage will be available this spring. Supply of the three major plant nutrients—nitrogen, phosphate, and potash—is the biggest ever. There's 11 percent more than last year. **This means:** Prices should be no higher than in 1953. They may be lower.

Expansion of potash production here at home is reported way ahead of schedule, with three new shafts this year in New Mexico.

You should: Keep informed of research results showing how to get the most out of every pound of fertilizer you buy. Lots of fertilizer is wasted—money lost—through (1) faulty placement (2) misbalance, like putting on too much nitrogen for the amount of potassium and phosphorus in the soil, and (3) discing in soluble phosphates instead of banding, top-dressing, or plowing down.

Exports looking up

The sharp deline in exports of your farm products may have hit bottom, with some improvement now in sight.

The Commodity Credit Corporation, offering wheat for export as wheat and flour at 50 cents a bushel under market prices, *hopes to boost exports by 40 million bushels this year.*

Increases are to be expected in exports of fats and oils—particularly soybean and cottonseed oils. Much of the world surplus available for export is right here at home. *Other countries must draw on these supplies* in order to maintain their present consumption rate.

Cotton exports also may be increased to replenish the low stocks of American cotton in Europe.

Drouth affects surplus

Practically unnoticed, the bargain-price feed the C.C.C. has been selling in drouth-stricken areas—$1-a-bushel corn and $1.10 wheat—has been cutting into the big C.C.C. stocks of surplus grain. *Through mid-December, the C.C.C. sold more than 1.2 million tons of feed.* The C.C.C. *ran out* of cottonseed meal and oats, announced that sales of these items would be stopped.

Why is this important? All this helps to strengthen prices of remaining stocks of grain.

Sealing helps prices

This year, as never before, you have lifted food and feed-grain prices by putting record quantities under price support.

Significant, too, is the increase in loans on *farm-stored* grain, indicating the increase in farm storage capacity. This means more farmers are independent of commercial storage.

Push your lambs

Get your new-crop lambs ready for market as quickly as possible. Be sure to dock and castrate. Try to get your lambs fat and sold before they weigh 100 pounds.

A look at beef

February is usually the roughest month of the year on the cattle market. Top grades suffer most. *Prices have tumbled in February in five of the last seven years.* Average price decline was about $4 per hundred. *A more moderate decline* seems likely this year because prices already seem to be down to a fairly firm basis.

Prices of low-grade cattle usually hold steady or improve during the winter, and some improvement seems likely this year.

Hog prospects good

Your hog price prospects still look good through spring and early summer—shading off in late summer.

Prices next fall and winter won't be as high as they were this past fall and winter. Reason: A shift to increased production of '54 spring pigs, at the same time that cattle slaughter will be big.

What to do: Take your profit when your hogs reach 225 to 250 pounds. The trend toward earlier farrowings seems to be continuing. Best profits will go to the man who gets to market "fustest with the mostest." *Save those early pigs!*

Dairy problem

Last year it was beef cattle. This year dairying is likely to become the big farm problem. **The simple fact is this:** Production of milk promises to be *far in excess of the consumption of milk and dairy products.*

Production of milk last year was an all-time high of 120 billion pounds—about 5 billion more than was consumed. Most of the rest is piled up in government warehouses—in the form of butter, cheese, and nonfat powder. Another 120 billion pounds likely will be produced this year, *and the surplus for storage will be increased.*

Poultry outlook dimmer

Latest indications are that egg production will be 5 percent bigger through June this year than last, commercial broiler output up 5 percent, turkeys up 6 percent. **These increases mean:** *lower prices.* Why? They exceed the increase in probable consumer demand.

Wool support price

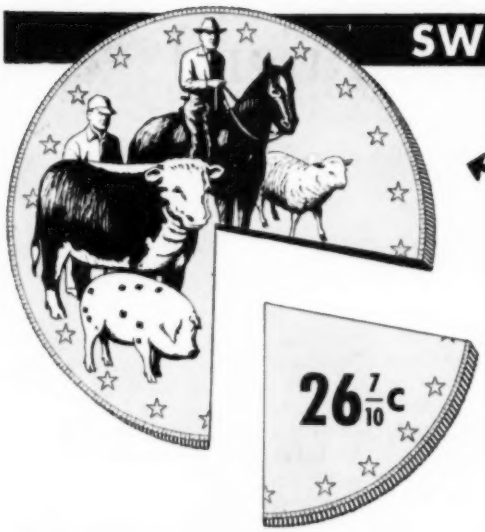
Your 1954 wool-price support will be 90 percent of parity—not less than 52.1 cents a pound, national average. Last year's average was 53.1 cents.

Government purpose in maintaining high-level support is to increase production to 360 million pounds a year. Production in 1953 was only 229 million pounds. At least a third more wool is needed to meet this objective. The support for mohair at 83 percent of parity (last year 80 percent) will be announced in April.

Soybean acreage

Support price for 1954-crop soybeans will be about $2.55 a bushel. In planning your soybean acreage this spring, please note that cottonseed may be reduced only about 3 million acres—instead of the 7 million first announced by Secretary of Agriculture Benson. **END**

SWIFT'S 1953 REPORT TO YOU



73 3/10 c of Swift's 1953 average sales dollar was paid for livestock and other agricultural products

Quick Facts

The financial report of Swift & Company for 1953 shows:
Total sales of all Swift's products amounted to
$2,597,203,715

Swift paid out for livestock and other agricultural products, and other costs of doing business, as described below:
$2,563,300,421

Total net earnings for the year:
$33,903,294

What Happened to the Other 26 7/10 c?

Here's Where the Other 26 7/10 c Went

For Labor

12 3/10 c

Almost half of the 26 7/10¢ was paid out for wages and salaries, including employee benefits. Swift paid out $324,027,305 to 78,500 men and women employes last year.

For Supplies

4 9/10 c

Swift spent $127,763,430 for salt (7,500 carloads), fuel, containers, paper and thousands of other items necessary to process and move products from you to consumer.

For Transportation

2 8/10 c

It costs about $617.00 to move a carload of beef from Omaha to Boston. Meats move an average of 1,000 miles from open range to kitchen range. Truck and railroad transportation cost Swift $66,353,828.

For Taxes

1 9/10 c

Last year Swift & Company paid to Federal, State and Local governments $49,912,271 in taxes. This amounted to an average of $636.00 per employee of the company.

For Other Business Expenses

3 3/10 c

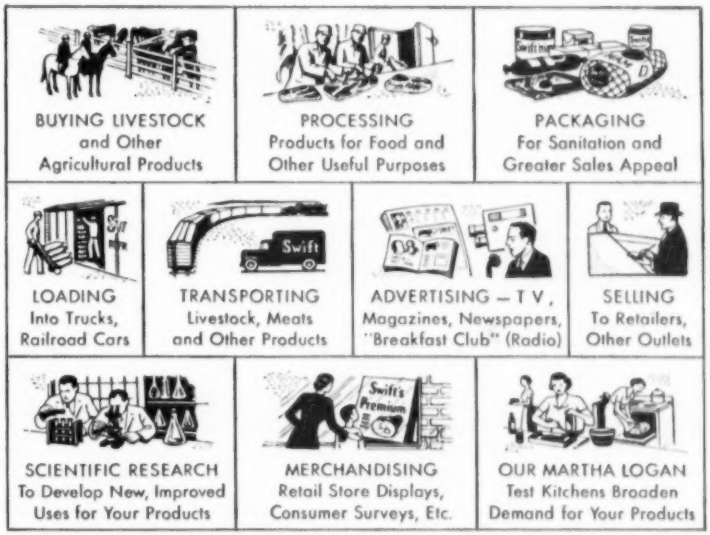
Research, marketing services, advertising, depreciation, interest on borrowed money, and all other necessary business expenses cost $91,805,728.

Swift's Net Profit Per Dollar of Sales

1 3/10 c

With all costs paid, there remained out of the Sales Dollar, 1 3/10¢ for Swift & Company. The 65,000 shareholders were paid for the use of their money in the form of dividends. The remainder was retained for use in the business. It will serve to improve further the efficiency of Swift & Company's operations.

The 26 7/10 c Provided These Essential Services



This Is America's Biggest Service Bargain!

A. L. Bruckner

Treasurer's Comment

The picture-story above points out the many necessary services Swift & Company performs in converting your agricultural products into usable form; and distributing them to thousands of sales outlets all over America.

All of these services cost money, as the figures above indicate. Yet they are performed with an economy and efficiency which few other industries in the world can match.

The item shown as "Net Profit per Dollar of Sales—1 3/10¢" is what is left over after all costs are paid. It is *the profit* Swift & Company received for doing all of the essential jobs.

Swift & Company earnings last year amounted to less than ½¢ per pound on all products we handled. This very narrow margin of profit is so small that it could not have an appreciable effect on the price of livestock, or on the price you paid for meat.

Treasurer, Swift & Company

Swift & Company

UNION STOCK YARDS, CHICAGO 9, ILL.

Nutrition is our business

Ready for a Bigger and Better Water System? BETTER BUY MYERS!

for the "Heart" of your farm

Does it wheeze and whine through every gallon? Or slow down to a trickle just when you need pressure?

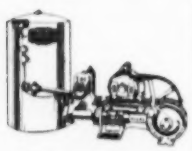
Mister, the time has come to think — and seriously, about a new water system.

How do you judge a water system? By cost? By capacity? By durability? By years of trouble-free performance?

Whatever your standards, Myers will meet and top them. That's why among more efficient farms, more buyers buy Myers.

Myers water systems are built by experienced craftsmen. Every third man has been with the company 30 years or more. The Myers line is complete. There is a Myers pump piston, Ejecto type or submersible, engineered to meet the specific requirements of your farm. Myers quality soon pays for itself in freedom from repair bills.

Mail coupon for "Water Witch", new dial chart which automatically shows your farm's water requirements. Or better yet, see your neighbor, the Myers dealer. He's a trained water specialist.



BULLDOZER WATER SYSTEM

SHALLOW WELL SYSTEM

DEEP WELL SYSTEM

"DEEPLIFT" EJECTO

TAKE OFF YOUR HAT TO THE MYERS

The F. E. Myers & Bro. Co.
Dept. SF-2, Ashland, Ohio

Enclosed find 10c for the "Water Witch" to figure my farm's water requirements.

NAME _____

RFD _____

POST OFFICE _____ STATE _____

Friend to Friend

Farm price support — High cost of cholera — Farming without a shovel

Kirk Fox

● Far be it from me to see ghosts under the farmer's bed. But memory is a troublesome thing at times, and I can't forget how **diverted crop acres** planted to grass once stimulated livestock production. Now it looks like we are again ready to let history repeat itself. An acre removed from crop production should not produce a marketable crop **of any kind.** Let the grass grow to protect the soil and then return to the soil for its enrichment. Fertility stored in the soil will be useful someday. A surplus of livestock can cause worse political explosions than a surplus of crops.

● How many **tons of silage** do you handle every week? Or maybe your lifting is done on hay, bedding, and baskets of feed. May I suggest when you have some time to figure a little, that you total up the tons of feed you must handle with a **fork, basket, or scoop** each winter. And don't forget you handle some of it several times. The results will increase your interest in the story which starts on page 45.

Out-of-date and miserably arranged **barnlots** cause **millions of backs to ache** unnecessarily. A bulldozer could, in a few hours, rip out broken-down fences, rock piles, scraggy trees, and junk piles. Then a plan of lanes and lots to permit more tractor use in choring would be easy. **Choring is in a rut** that has been growing deeper for 100 years. It represents too many hours of work to remain neglected by farmers and engineers.

● When **Fred McCulloch** started farming a long time ago, the **law of supply and demand** governed a farmer's actions, he tells me. And he thinks that is the only hope for solution of some of our present troubles. I'm sorry, but I can't go all the way with this successful farmer's thinking. When the **price of bread** advances two cents a loaf, I can't believe it is because of increased public demand for bread. Rather it is a demand for **higher wages** by the bakers, higher interest rates, high shipping costs. None of them is going to come down by letting supply and demand determine **wheat prices.**

● **Hog cholera** has taken millions of dollars out of the Cornbelt farmers' pocket. The best-known methods of control admittedly fall far short of being completely satisfactory. Who is going to start a campaign to **wipe out the disease?** That seems to be the only sure way of stopping losses. Should it be any more difficult than to wipe out tuberculosis and Bang's disease? I don't believe it would be as hard if all agencies got busy.

● The **owner's footsteps** are the best **fertilizer** for any farm, said the ancients. My friend, Alvin C. Thompson, truck gardener on a huge scale, reminded me of the above recently. He does not approve of the present tendency to drive by the farm in a car or truck and draw conclusions accordingly. You must walk carefully over your fields if you wish to manage them most efficiently.

● Figures showing **heavy cattle slaughter** mean more if they indicate the **number** of **females.** And they are still more interesting if they show the age of the stuff slaughtered. I feel sure a lot of old cows are now being kept to produce another calf because the value of such cows is so small. And then a great many young females are being raised and kept for replacements. In both beef and dairy herds the tendency is to keep **productive females.** Thus our cattle population is gaining in its ability to expand rapidly.

● February again reminds us of how much we owe to the strength of character possessed by **Washington** and **Lincoln.** Are men more sorely tried in our modern, complex civilization? Are the potential Washingtons and Lincolns of today being overwhelmed by the frantic desire to win modern-day rewards, such as grand championships, or proud political office? Reading the lives of these great men to understand how much they sacrificed for what they **believed right** is good for all of us. Both men repeatedly refused to be a party to a dishonest act. It was not enough for them to forego the act itself.

● My hat is off to the Brown Swiss Cattle Breeders Association for being the **first** breed association to officially go on record as favoring the admittance of superior **grade** animals in its herd book. The Brown Swiss breeders have the foresight to see that we now have many grade herds which are far superior **production-wise** than some herds registered simply because of color and fancy ancestors.

It's been proved time and time again that the old basic requirements—color and ancestory—may have little to do with the amount of milk that winds up in the milk pail or with the over-all improvement of the breed.

The final plan for admitting grade animals in the Brown Swiss herd book is still being worked out. But the first big step has been taken. I hope the sound thinking of the Brown Swiss group will influence **other** breed associations to give up some of their **outdated** requirements for purebred registration.

Standard Oil's home heating discovery completely prevents clogging of oil burner parts...stops gum, sediment, rust in tanks!

STA-CLEAN

TRADE-MARK

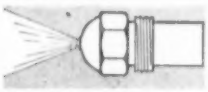
wonder additive* keeps oil burners running like new!

NEW STANDARD FURNACE OIL

...the finest ever made!

No other oil gives such assurance of constant, non-stop heat • STA-CLEAN† is a detergent, a preservative, a rust-preventing agent blended in at the refinery • New STANDARD Furnace Oil with STA-CLEAN† does more than any other oil to eliminate major causes of burner failure • Cleans and protects as it flows through every vital part from tank to fire chamber!

Actual photo shows at left sludge-clogged filter found in this condition after season's use of ordinary fuel oil. Like-new filter at right was used full season with new STANDARD Furnace Oil containing STA-CLEAN†.



STA-CLEAN keeps screens clean and open and keeps nozzles free of dirt that might shut off heat.

STA-CLEAN stops formation of gum and sediment in fuel tanks and prevents rust that can eat through tank walls.

ORDER NOW—There's a Standard Oil Agent near you . . . ready to bring you a fill of this great new furnace oil.

Phone today!

*Patented
†Trade-Mark

You expect more from STANDARD and get it!

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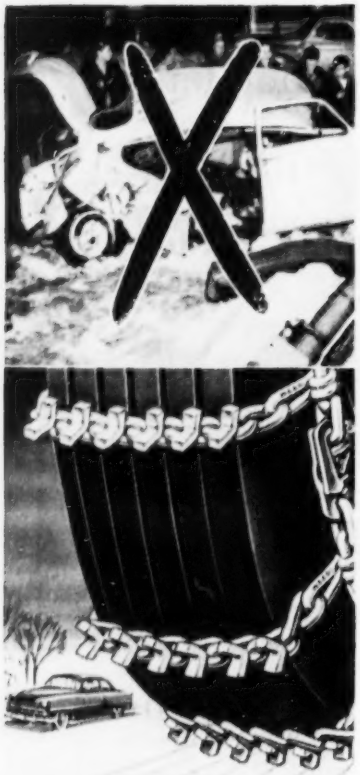


TRACTION YOU CAN TRUST

Be sure on snow and ice with Weed V-Bar Tire Chains . . . It may save a life . . .

• Whenever you drive on ice or snow, you'll have better, safer traction with WEED AMERICAN V-Bar Reinforced Tire Chains.

WEED V-Bar Tire Chains—the finest ever made—are more effective than any bare tire treads. The V-Bars—with 288 or more steel gripping points—are slanted left and right for balanced traction . . . for surer, shorter, straighter stops.

for Cars and Trucks

• Now you can get WEED V-Bar Tire Chains for your farm truck, too—for single tires, and for dual tires (with triple side chains.)

WEED V-Bar Chains are made intentionally better . . . Safer on snow and ice

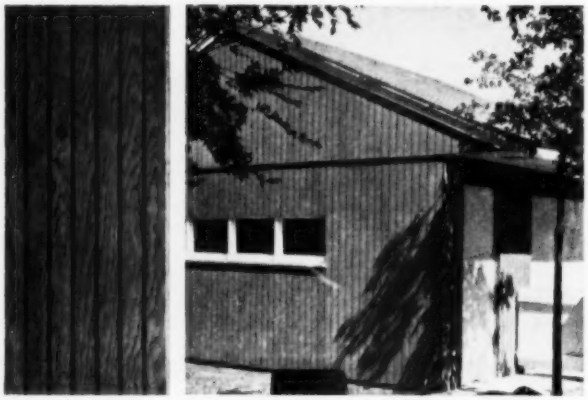
• American Chain & Cable Company, Inc., Bridgeport, Conn. In Canada: Dominion Chain Company, Ltd., Niagara Falls, Ont.

ACCO

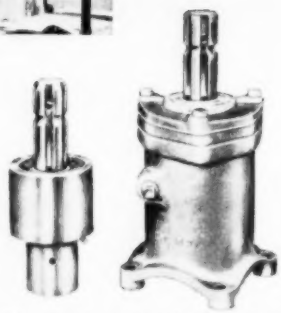
WEED V-BAR TIRE CHAINS

What's new in farming®

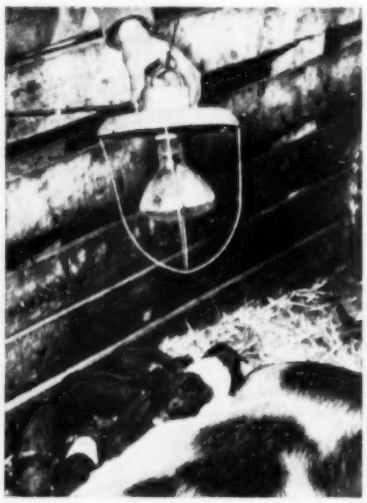
Tips you can use today



Textured siding. New plywood material is grooved to give shadow line. On exterior walls, must be applied with lines vertical so water will drain; for interior use, either vertical or horizontal. Sheathing is not needed.—*Douglas Fir Plywood Association, 1119 A St., Tacoma 2, Washington.*



Live-action clutch. Unit lets the tractor operator shift gears without having to wait for power take-off to stop rotating. Said to end starting overloads.—*B. M. B. Company, Holton, Kansas.*



Safe heat-lamp holder. This new unit is equipped with a special mercury switch which shuts off current if holder is tipped or lamp hung by electric cord.—*F. B. Recker Company, Hopkinton, Iowa.*

Scrape-off paint remover. Nonflammable, nonstaining chemical is applied in daubs with brush. Ten minutes later, film is scraped off, leaving clean, wax-free surface.—*Solvent Sales Dept., Dow Chemical Company, Midland, Michigan.*

Rock picker. This 6′ model allows tractor-seat control of picking, loading, dumping. Picks rocks up to 350 pounds; steel hoppers hold 3,000 pounds.—*Minn-Kota Company, Moorehead, Minnesota.*

Fast-Hitch and GO...

IN SECONDS you're ready for the next chore or off to the field with the McCormick® FARMALL® SUPER C

6:43 a.m. You hitch to a loaded spreader in seconds. Just nudge a handy hydraulic control as you back your Super C. The F-H drawbar *reaches* down for the spreader hitch, then raises it for an easy, no-lift hook up.

7:15 a.m. Just back in, click, and go disking! You hitch to the McCormick F-H lift-type tandem disk harrow and are off to work in 10 seconds. High-gear transport turns road time into *extra* rounds in the field.

1:05 p.m. Same field . . . same Super C, but now you're planting corn with a McCormick F-H planter. Fast-Hitch lets planter float for even depth planting, drilling, hill-dropping, or check-row planting.

5:30 p.m. You've got a running start on evening chores with your Super C and F-H platform carrier. It's just the ticket for lugging feed. In seconds, you can change to the F-H drawbar to haul hay or grain.

Try Farmall Fast-Hitch. With 24 F-H implements and dozens of special-duty machines, *there's no end to the Super C's usefulness.* Ask your IH dealer for a demonstration . . . try Fast-Hitch and qualify for membership in his 10-Second Club.

INTERNATIONAL HARVESTER

International Harvester products pay for themselves in use—McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crawler Tractors and Power Units . . . Refrigerators and Freezers—General Office, Chicago 1, Illinois

Write for Free Fast-Hitch Catalog:

International Harvester Company
P.O. Box 7333, Dept. SF-2, Chicago 80, Ill.
Tell me how Farmall Fast-Hitch for the Farmall Super C can help me keep ahead of my work.

Name_____

Address_____

Post Office_____ State_____

I farm_____ acres. Principal crops_____

My IH dealer is_____

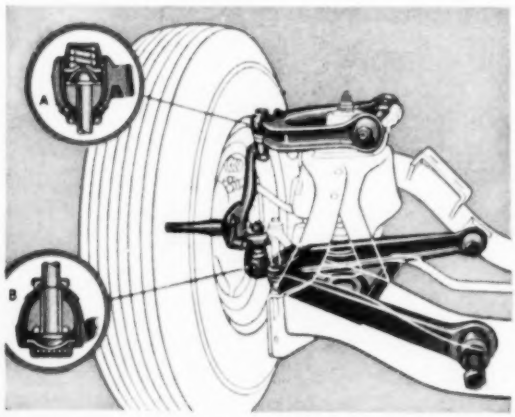
'54 Ford *the "Worth More"*

Ford, long known as the "Worth More" car, now brings you even more value. You get the dividends of exciting new styling, inside and out . . . smoother, more agile performance . . . a revolutionary new suspension . . . and many other new, fine-car advancements. And all for far less than you might expect to pay for a car of such superior quality and distinction.

Then, too, as an additional dividend, Ford makes available *all* the fine-car power assists.

Thus, with Ford's 28 brilliant models from which to choose, you can have the exact car to suit your tastes and requirements . . . a car that's basically fine in quality, a car that's truly modern.

And once you Test Drive the Ford of your choice, you'll want to drive it home.

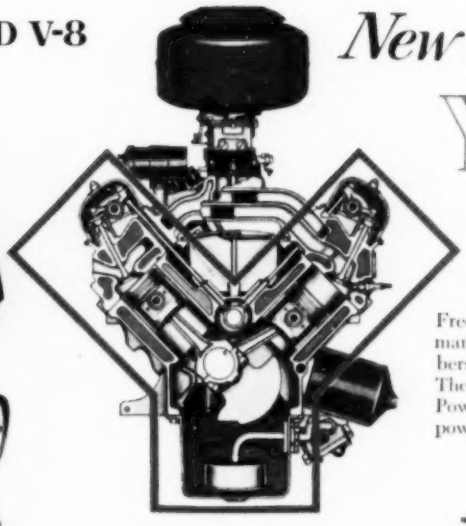


RIDE DIVIDEND

New Ball-Joint Front Suspension. This revolutionary new suspension allows front wheels to "step over" bigger bumps for a smoother ride. And it keeps the wheels in true alignment for consistently easy handling. Movement of the wheels is about ball joints (see A and B) whether in up and down motion, as wheels travel over rough spots, or in steering motion as wheels turn right or left. Ball joints are sealed against dirt and water. Lubrication points are cut from sixteen to four.

car declares a dividend

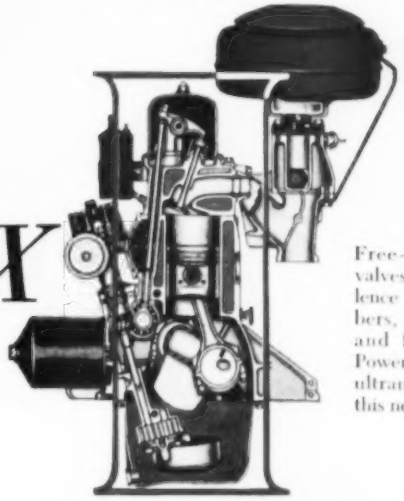
ORIGINAL FORD V-8



New 130-h.p. Y-BLOCK *V-8*

The Y-Block V-8 engine has an extra-deep skirt extending well below the crankshaft. The greater rigidity that this gives, results in far smoother and quieter operation . . . adds to engine life.

Free-turning overhead valves, Double-Deck intake manifold and high-turbulence combustion chambers give new responsiveness to your every demand. These, plus low-friction design and Automatic Power Pilot, give you the advantages of 18% more power and even greater over-all economy.



New 115-h.p. I-BLOCK *SIX*

Like the new Y-Block V-8, this new Six has an extra-deep block for greater rigidity . . . smoother, quieter performance . . . and longer engine life. It's the industry's most modern Six.

Free-turning overhead valves, new high-turbulence combustion chambers, low-friction design and Ford's Automatic Power Pilot are among the ultramodern features of this new Ford Six.

DIVIDEND IN DRIVING EASE

Ford offers five optional power assists you might find only in America's costliest cars*

Master-Guide Power Steering cuts steering effort up to 75%, yet it gives complete "feel" of the road on straightaways.

Swift Sure Power Brakes cut braking effort up to one-third. Here's a feature that gives you easier control for greater safety in traffic.

Power-Lift Windows raise or lower at the touch of a button. There's a master control on the door next to the driver for all four windows.

4-Way Power Front Seat goes up and down, forward and back, at the touch of the controls. Gives most comfortable driving position.

Fordomatic Drive alone in its field combines fluid torque converter smoothness and the "GO" of an automatic intermediate gear.

*At extra cost.

'54 FORD

Now more than ever it's
THE STANDARD for THE AMERICAN ROAD

Low-cost Corn

You are looking at a fine crop of corn grown at low cost per bushel. A heavy application of V-C Fertilizer produced these big ears loaded with high-quality grain and added many extra bushels to each acre at very low extra cost.

Many leading farmers have doubled and tripled corn yields by greatly increasing their use of V-C Fertilizer. This means that they get two to three times as many bushels from their investment in land, labor, machinery, seed, fertilizer, insect control and other expenses.

The extra bushels added to your yield by V-C Fertilizer are the most economical and most profitable bushels you produce. When you double or triple your per-acre yield with V-C Fertilizer, you greatly reduce your costs per bushel and increase your net return. You are in a better position to make money from your crop whether corn prices are high or low.

Start now to get big yields of high-feed-value corn at low cost per bushel. Use good seed, approved cultural practices, close spacing, insect control and a heavy application of V-C Fertilizer.

THE RIGHT FERTILIZER FOR YOUR CROP!

VC FERTILIZERS®

Ask your County Agent how to produce really big yields of corn...and then see your V-C Agent. He will supply you with the *right* fertilizer for your crop. Each V-C Fertilizer is a rich, mellow blend of better plant foods, properly balanced to supply the needs of the crop for which it is recommended. Produced by a national organization which has manufactured better fertilizers since 1895, V-C Fertilizers are your best investment. Use more in 1954!

Use Black Leaf® Pest Control Products

"Black Leaf"

When you buy V-C Fertilizers to grow profitable crops, place your order for Black Leaf sprays or dusts to protect your crops from insects and other pests. V-C Fertilizers and Black Leaf pest control products work together to produce and protect big yields.

Farm news of the month

Good spring hog market ahead

A continued strong price for hogs through this spring was indicated by facts gathered in the final pig-crop report for 1953.

The fall-pig crop for 1953 was estimated at 31.9 million—that's 9 percent *below* the 1952 fall crop. *And it's the smallest supply of new pigs for the next marketing period since 1947.*

But, note this: Farmers revealed to U.S.D.A. their intention to step up pig production. They said they intend to increase number of sows farrowing by 6 percent this spring over the 1953 spring crop. The government report indicates that pig production in 1954 will be up 4 percent over 1953.

Summed up, a spring-pig crop of 52 million was forecast in the December 22 report, compared to 50.2 million for the spring of 1953.

Before you get overly enthusiastic about hogs, *remember* that lots of beef will be sold this year.

Land prices going down

Land prices are "stable to declining." That's the conclusion drawn from an opinion survey of country bankers in Iowa, Illinois, Wisconsin, Indiana, and Michigan. In fact, the market is so inactive that it's hard to measure changes in land value.

Less than ½ of 1 percent of the bankers in the Seventh Federal Reserve District reported prices going up; 54 percent said prices were going down; and 46 percent said values were stable.

Who is selling farms? Half have been sold by farm operators, and about half by nonfarmer owners during the past year. More nonfarmer owners seem to be selling than in other recent years.

Who is buying farms? About half are bought by farmers who are adding to their holdings, one-fourth by tenant operators, one-seventh to local nonfarmer investors, and a few to investors from outside the area.

Proposed changes in hog grades

The U.S.D.A. is considering a proposal by the Swine Industry Committee, representing all segments of the swine and pork industry, to change the names of slaughter (live) and carcass-grade barrows and gilts.

Present names for both slaughter and carcass grades are Choice No. 1, Choice No. 2, Choice No. 3, Medium, and Cull. *The Committee proposes changing the three Choice designations to Meat, Good, and Overfat—with no changes in the other two grade names.*

The proposals are intended to make the grades a more effective marketing aid. "The Choice No. 1, 2, and 3 designations don't make sense," says Dean H. H. Kildee, world-known livestock judge at Iowa State College. "The changes are the best steps forward we have made in a long time. They will allow everyone in the industry—all the way from the producer to the consumer—to buy and sell on a *merit* basis. It will mean a better price for the superior animal, less for the inferior." Many packers have already put into use these new proposed changes.

Superanalysis fertilizer

A new nitrogen-phosphorus material, analyzing around 17-80-0, has been announced by TVA's division of Chemical Development. One hundred pounds of the material, if O.K.'d for use as fertilizer, would be roughly equal to 400 pounds of superphosphate plus 100 pounds of ammonium sulfate.

Important date

January 31 is the last date you can get price supports on your 1953-crop wheat, barley, grain sorghums, oats, rye, dry beans, flaxseed, hay and pasture seeds, and soybeans.

"Trademark" for meat-type hog

Time is not far off when housewives will be able to step up to the meat counter and ask for *meaty pork by brand name or trade name.*

Three farmer-owned producers livestock cooperatives in Ohio and Indiana are making sure their meat-type pork will get the attention it deserves. They're sponsoring a contest to find a trade name for No. 1 meat-type hogs and pork products from such hogs.

The contest closes January 31, 1954. After that time, it is hoped that farmers, processors, and buying housewives, will call for the meat-type hog and its products by the new brand or trade name.

Now you see 'em—now you don't

Ultraviolet light is now helping spot "off breeds" in seed oats.

Agronomists at Iowa State College have found that ultraviolet light makes some varieties glow a bluish-white color. Others don't glow at all or glow less faintly. This difference in color under ultraviolet light allows seedsmen to pick out off-types in a hurry.

More testing is being done with ultraviolet light in identifying seed by Iowa State and other colleges.

Grasshoppers thick this year?

A larger-than-usual number of grasshoppers probably worked overtime laying eggs last fall, says Dr. J. H. Lilly, Iowa State College.

Farmers across most of the Cornbelt may have trouble with grasshoppers this year, especially if we have a dry spring.

Farm woman at the switchboard

1 Mrs. Clara Schindler, chief operator at Perryville, Missouri, is the right person to have on hand when a farm call registers on the switchboard. She's a farmer herself and knows what it's like to have grain that needs combining, or stock ready to truck to market.

2 Help in locating a veterinarian means a lot to a farmer with a sick cow. Mrs. Schindler passes knowledge like this along to the fifteen girls working side by side with her. They know how to be extra helpful when the rural call is extra important.

3 Off duty at the Central Office and on duty at her farm. Garden to take care of and chickens to feed. She's a farmer at heart and "knows her onions" here as well as at her telephone job.

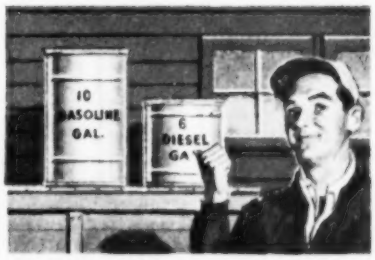
Mrs. Schindler is one of the thousands of telephone people who have done so much to improve and expand rural telephone service. She's typical of the men and women whom farm people rely on in emergencies and in the day-to-day running of the farm.

BELL TELEPHONE SYSTEM

Three-four plow "88" Two-three plow "77" Two-plow "66"

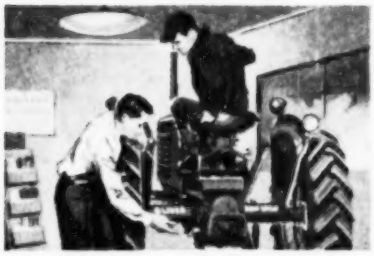
Make your new Diesel an OLIVER

Any size you want. Only Oliver offers a diesel in every power class: the handy "66", the popular "77", the high-lugging "88". *True diesels*, not make-overs.



Big fuel savings! You burn only 6 gallons of diesel fuel to 10 of gas—at a much lower price per gallon. Oliver true diesels *start* and *run* on diesel fuel.

Easy upkeep, too. Diesels are very simple engines, an Oliver the simplest of all. Your Oliver dealer can service an Oliver Diesel just as easily as any gasoline tractor.



All the features. You'll want the 6 forward speeds...3-point hitch...Direct Drive PTO...*Hydra-lectric* Power Lift. So make your new diesel an OLIVER!

see your OLIVER DEALER and SAVE!

FS-2

The OLIVER Corporation
400 West Madison Street
Chicago 6, Illinois

☐ I farm ..... acres.
☐ I am a student.

Please send illustrated booklet on the diesel I have checked:
☐ 2-plow "66" ☐ 2-3 plow "77" ☐ 3-4 plow "88"

Name .....
(Please Print)

R.R. ..... County .....

Post Office ..... State .....

More alfalfa with SPERGON®!

More money for you!

Spergon® Seed Protectant can increase your alfalfa yield substantially for many more market dollars. By preventing seed decay, "damping off" and other fungus diseases, Spergon is your best insurance against the risks of cold, wet planting weather.

Spergon lets you plant less seed and lubricates that seed for less breakage and easier planting. It works very effectively with legume inoculants and is non-hazardous.

Order Spergon or formulations containing Spergon from your local supplier today and watch your profits grow.

Naugatuck Chemical

Division of United States Rubber Company
ELM STREET, NAUGATUCK, CONNECTICUT
producers of seed protectants, fungicides, miticides, insecticides, growth retardants, herbicides: Spergon, Phygon, Aramite, Synklor, MH, Alanap.

The farmer's Washington®

By Richard Wilson

Here's what the new administration farm plan would mean to you, commodity by commodity—how it would affect prices of things you sell if it is passed

Inside on news leak. Farm officials strained every nerve to maintain secrecy on Secretary of Agriculture Ezra Taft Benson's laboriously prepared recommendations for a new farm program. But a high official inadvertently left a copy of the plan in the U.S.D.A. building where reporters could not fail to find it.

Thus, six weeks before President Eisenhower was to be ready to go to Congress, the cat was out of the bag. Mr. Benson, it was revealed, was ready to propose a complex system of continued price supports at a slightly lower level for most farm commodities.

It was a fingers-crossed plan. *The moment anything went wrong, it was provided that the farm program would revert to the old-style price supports.*

Presenting the plan. There were many hurdles to stride before the new plan—drafted by an 18-member agricultural advisory commission appointed by the president—could go into effect.

Secretary Benson was ready to accept the program virtually in its drafted form. But there were doubters at the White House, when the report was presented in mid-December for final approval.

The president planned a special message to Congress for presenting the report. Then the real fighting would begin. No one in Congress had the faintest hope a final bill would be passed until late in the session.

Here's the plan. Here are the main provisions of the drafted plan, commodity by commodity, about as we predicted in our outline for you last month:

Corn—*A lower-support price level* would result from the adoption of a new parity-price formula about 11 percent lower than the present formula. Supports would be flexible, ranging from 75 percent to 90 percent of the *new* parity formula. However, *the plan would start in 1955 with the support price at 90 percent of parity.*

A new feature of the plan would fix by law the volume of corn that the government could hold under loan. *When the limit was reached, the government would be required to dispose of or dump the corn.* This provision would make it possible to move government stocks *out* of C.C.C. bins.

Other feed grains—They would be supported at the 90-percent-of-parity level as figured under the new formula.

Wheat—As previously told in *Successful Farming, a two-price plan* would be adopted for wheat—*beginning with the 1955 crop.* Again, the "modernized" parity formula would be used with its consequent drop in guaranteed returns to farmers. *This drop is estimated at about 6 percent.*

Again, here's how plan would work: Prices would be guaranteed at 100 percent of parity for that portion of the crop estimated to be consumed domestically. Export wheat would go at the world price on the competitive market.

Since this amounts to dumping wheat on the world market, there will be serious reservations in the state department—because of the objection of foreign nations. Furthermore, seasoned congressional observers doubt that any such two-price system will ever be acceptable in Congress.

Cotton—Cotton men on the president's commission want to continue the present program at a straight 90-percent-of-parity level, though the commission as a whole, favors a two-price plan. But the cotton men fear the repercussions of a dumping operation.

Dairy products—If the agricultural commission has its way, Benson will drop the 90-percent-of-parity price guarantee on your dairy products. This was his original intention when he decreed the 90 percent of level continued for another year—through March 31, 1954.

The commission's aim would be to reduce the present government-controlled supplies of butter and cheese. Several plans, like an outright subsidy of 10 cents per pound, paid through the dairy processors, have been discussed.

Wool—In the case of wool, the commission's recommendation makes a sharp break with the recent past. The program would call for *direct payments to wool growers.* These payments would make up the difference between the price you actually receive in the open market and that to which you would be entitled under a 90-percent-of-parity guarantee.

[*Turn to page 140*

Agricultural specialists from 15 countries attending the Sixth International Grassland Congress visited the Brigham Farm to study its pastureland and to see its world-famous Jersey herd.

Many of the farm buildings, though modernized and perfectly maintained, are well over 100 years old, and have the original hand-hewn beams and rafters.

"Use CHAMPIONS? We certainly do! They're good performers in this rugged Vermont country."

Says MR. ELBERT S. BRIGHAM, owner of Brigham Farm, St. Albans, Vt., and holder of the American Jersey Cattle Club's highest award—Master Breeder.

One of the best known dairy herds in the world is the famous TON OF GOLD Jersey herd at the Brigham Farm near St. Albans, Vermont. Mr. Elbert S. Brigham, who owns this 530-acre farm, served the people of Vermont as Commissioner of Agriculture for many years and later represented them in Congress. Entering business, he ascended to the presidency of a large insurance company before returning to his farm and the job of developing the herd.

Teamed with Cesaire Lacoste, Herdmaster, and Philip Spooner, Crop Manager, Mr. Brigham has been a Spartan adherent to his basic theory that maximum milk and butterfat production can be obtained only by breeding large-capacity cows, feeding them properly, and giving each animal the "loving care" too often reserved for show animals. The best known cow in the Brigham herd is J. Royal King's Quomage who in 1951 became the Living Lifetime Production Champion of the Jersey breed after producing 166,822 lbs. of milk with 8,151 lbs. of butterfat.

Says Mr. Brigham, "Our state has always been rugged country. It has taken a lot of experimenting with various grass crops to get the most productive results from our land. However, we don't have to experiment with spark plugs to get best results from our farm equipment. We use Champions! They're good performers in our five tractors, four trucks and other farm engines. We Vermonters are sticklers for quality, so Champions—having served us well over the years—are the natural choice for all our farm machines, and for our personal cars."

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

In 1949 the Brigham Jersey herd became the only 100-cow herd in the world to average more than 600 lbs. of butterfat. There have been 146 TON OF GOLD cows bred and developed by this farm.

For Every Engine!

CHAMPION

SPARK PLUGS

For Every Job!

Modern farm machines, all Champion-equipped, handle the large silage and hay crops necessary to produce 36-plus pounds of milk per day average.

WE'LL HELP YOU SAVE MORE BABY CHICKS

Visit our First Aid Station for poultry supplies

We sell Keystone Poultry Netting for fence, for windows, for partitions, for roosts

Look for this Sign for better values in poultry supplies

Leading poultry supply dealers are ready to help you save more baby chicks... your first step to higher profits. These dealers know the ways you can keep death loss low... how you can have a healthier flock that will give you faster growth. They have a complete stock of supplies to help you meet these needs. Look for the sign above. It will identify a dependable source for better values in poultry supplies.

Keystone Poultry Netting will be featured by these dealers. They feature it because *it has long life.* It's made of copper bearing wire. Then it's galvanized. This gives double protection against rusting. The *mesh is made with a reverse twist.* This exclusive method of manufacture produces fence that unrolls flat... is easy to erect without bulges. Be sure to get *Keystone* quality when you buy poultry netting.

KEYSTONE POULTRY NETTING
by the makers of Red Brand Fence
KEYSTONE STEEL & WIRE COMPANY, PEORIA 7, ILLINOIS
Red Brand Fence • Red Top Steel Posts • Non-Climbable Fence • Gates • Bale Ties • Nails

Antibiotics

Big shots in feeds put brakes on disease

Antibiotics in feeds are being used for another purpose besides speeding up growth. Now—at levels 10 times higher than previously recommended—antibiotics are putting the brakes on disease.

High-level antibiotic feeds show up best when: (1) A farm has disease problems every year; (2) animals are in the most disease-susceptible period of growth; (3) disease has already infected animals.

Proof that it pays. Most proof to support high antibiotic feeding comes from tests in which aureomycin and terramycin were used. These antibiotics, fed at high levels and as a part of the feed, have helped control blue comb, chronic respiratory disease, and symptoms of air-sac disease in poultry. Sinusitis and mud fever in turkeys, and scours and enteritis in both swine and calves also respond to high antibiotic feeds.

One antibiotic manufacturer reports that 100 grams of antibiotic per ton of feed boosted profits $58 per 1,000 broilers. High-level antibiotic feeding reduced mortality from 10.7 to 2.8 percent, increased the weight of the birds at 10 weeks from 2.8 to 3.1 pounds, and cut feed required per pound of gain from 3.1 to 2.8.

Dr. H. R. Bird, University of Wisconsin, says there is plenty of evidence that high antibiotic feeding—even 200 to 250 grams per ton—doesn't hurt poultry. But there are indications that high-level antibiotic feeding may interfere with the immunity to Newcastle disease.

Swine program. Outbreaks of swine disease have been prevented by high-level antibiotic feeds in herds with a past record of one disease after another.

The high-level antibiotic program for swine consists of feeding high levels to pigs at their most critical disease period—from birth to weaning age. Results have shown less baby-pig diarrhea, heavier weaning weights, fewer runts, and a high degree of health and vigor in pigs.

Caution. Many of the new high-level antibiotic feeds contain high levels of vitamins and protein as well as big doses of antibiotics. Reason: Livestock won't eat as much when disease strikes. Therefore, they need a ration high in vitamins and protein to keep up resistance.

High-level antibiotic feeds won't allow you to drop your guard against disease, but may be valuable insurance *against* disease. When disease strikes, the new feeds may help clear it up faster. In case of severe disease outbreaks, it's still a good idea to call your veterinarian for help. **END**

On pavement, heavy sod, in wet or dry plowing, this testing unit measures the ability of tractor tires to deliver drawbar horsepower. Repeated tests have proven that no other tractor tire can match the Firestone Champion in pulling and cleaning — on any job — in any soil condition.

You Get All the Drawbar Horsepower Your Tractor Can Deliver With

Firestone CHAMPIONS

SOIL conditions for plowing and planting may vary, but the performance you get from Firestone Champion Tractor Tires always adds up to more work done behind the drawbar.

Tests prove that you get all the drawbar horsepower your tractor can deliver when you use Firestone Champions. The curved and tapered traction bars grip the soil for a firm, sure hold . . . the flared tread openings keep the tire clean . . . and the wide flat tread always insures full traction contact which means maximum drawbar pull and longer tread life.

Let your Firestone Dealer or Store show you the many other features that help you save money and get more work done.

Buy Firestone Tires for Every Wheel That Rolls on the Farm

FIRESTONE CHAMPION HEAVY DUTY

The new, rugged, low-priced truck tire that is built for all-around farm truck service.

FIRESTONE DELUXE CHAMPION

The passenger car tire that is safety-proved on speedway for your protection on the highway.

ALWAYS BUY TIRES BUILT BY FIRESTONE, ORIGINATOR OF THE FIRST PRACTICAL PNEUMATIC TRACTOR TIRE

Copyright, 1953, The Firestone Tire & Rubber Co.

Enjoy the Voice of Firestone on radio or television every Monday evening over NBC

See how

Soda serves more ways than any other household product

Baking soda (bicarbonate of soda) saves you time, work and money 101 ways. Keep a box in the kitchen to lighten household chores and in the medicine cabinet for first aid, dental and medical care.

Lemon and Soda for Colds!

The juice of a lemon and ½ tsp. bicarbonate of soda (baking soda) in ½ glass of water is an excellent neutralizer . . . helps reduce acidity. Liquids are important in easing cold discomforts, so take lemon and soda several times a day. See if it doesn't help you feel better!

Soothing Gargle and Mouthwash! Bicarbonate of soda used as a gargle is another effective measure against colds. To cleanse the throat and help remove accumulated mucus, dissolve 2 tsp. soda in ½ glass of water. Makes a cleansing alkaline mouthwash, *stops bad breath that originates in the mouth.*

New Handy Size with Metal Pour-Spout!

Now—you can get bicarbonate of soda in a specially designed water-repellent package just the right size for your medicine chest. You *pour* out just what you need. Convenient for travelling. Available in the health and beauty aids departments of grocery stores.

A Household Treasure

Why buy a number of different products to do a number of different jobs when baking soda (bicarbonate of soda) does them all and costs only pennies a box?

Arm & Hammer and Cow Brand Baking Soda are pure Bicarbonate of Soda, U.S.P. **Free Booklet!** Write: Church & Dwight Co., Inc., 70 Pine Street, New York 5.

Latest "know-how" in foods

Your market basket of new products, ideas, research

Chopped ham "roast" and raisin sauce comes in a family-size, pear-shaped can. The raisin sauce is packaged separately in a transparent plastic sack. The ham and raisin sauce can be stored at room temperature right on your kitchen shelf. You can either bake the chopped ham and glaze it with raisin sauce or pan-fry it and top it with hot raisin sauce. It's a good item for an emergency shelf.

Here's a new idea—beef pot pie in a can. It needs no refrigeration. The pie is a combination of beef and vegetables enclosed in pastry dough. Just open the top and bake right in the can. Saves on dish-washing and is also a good item for an emergency shelf.

Complete frozen meals-in-one. These new heat-and-eat meals on the market include meat, vegetables, and potatoes. The meats are pot roast of beef, Swiss steak, turkey dinner, and turkey pot pie. All can be ready to serve in from 5 to 10 minutes. The meals are arranged in three divisions of a ready-to-serve aluminum tray covered with aluminum foil. (Trays are re-usable.) You just heat the meals in the oven or on top of the stove. Even the menfolks or the youngsters can prepare their own meals with these frozen foods.

A meringue mix is now on the market. If you have trouble with "weeping" meringues, this mix is the answer to your problem. All you do is add water to the mix and whip, until it stands in peaks. Then brown in the oven. It's a fine companion for pie and cake mixes.

Another newcomer is a 7-minute frosting mix. The mix makes enough frosting to frost two 8- or 9-inch cake layers. Just add water and beat until the frosting is stiff and stands in firm peaks. Then frost the cooled layers of cake. The frosting can be tinted, if desired, with food coloring. The mix is packaged in dry form in a convenient silver package.

Packaged cream of mushroom soup mix cooks in just 5 minutes. Merely add water and heat, stirring constantly. It can be used not only as soup but for gravies, stews, and casserole dishes. END

REPORT FROM CONSUMERS:

Women want leaner pork—NOW

Housewives, who buy practically all the food for their families, want leaner pork. And they will even sacrifice quality to get it. This is what University of Missouri researchers found when they ran test surveys among a typical group of Columbia, Missouri, housewives.

The test was the largest one of its kind to date. More than 400 homes were visited and homemakers asked to choose between Choice No. 1 and Medium-grade pork cuts. Then the housewives were given the meat. Surveyors returned for a recheck to see which cuts the families preferred after cooking and eating.

Warning to hog producers: The results should serve as a warning to farmers. Before cooking, 51 percent of the housewives chose the Medium grade. Only 44 percent selected the Choice No. 1 cuts. Five percent had no choice.

After the housewives cooked and served the meat, half of those who had previously selected the Choice No. 1 cuts decided they preferred the leaner or Medium grade.

The 51 percent of the housewives who selected the Medium grade before cooking also were asked their opinion on the two grades after serving. *Two-thirds still preferred the Medium grade.* Leanness was the big factor in selection of lower-grade cuts.

Willing to sacrifice quality: The big point in the test was the *willingness of the housewife to sacrifice quality in order to get lean cuts of pork.* But, other factors which affect the picture so far as the hog producer is concerned were found.

Only 55 percent of the 400 housewives checked said they used any lard at all. Seventy-five percent or *three in every four* also said they preferred beef to pork. Almost all the housewives—51 percent—said they served meat at least twice daily.

Opinions such as these clearly show the need for producing meat-type hogs.

NEW MIXES! So much better they

WIN ON ALL 4 "MUSTS" FOR HOMEMADE CAKE!

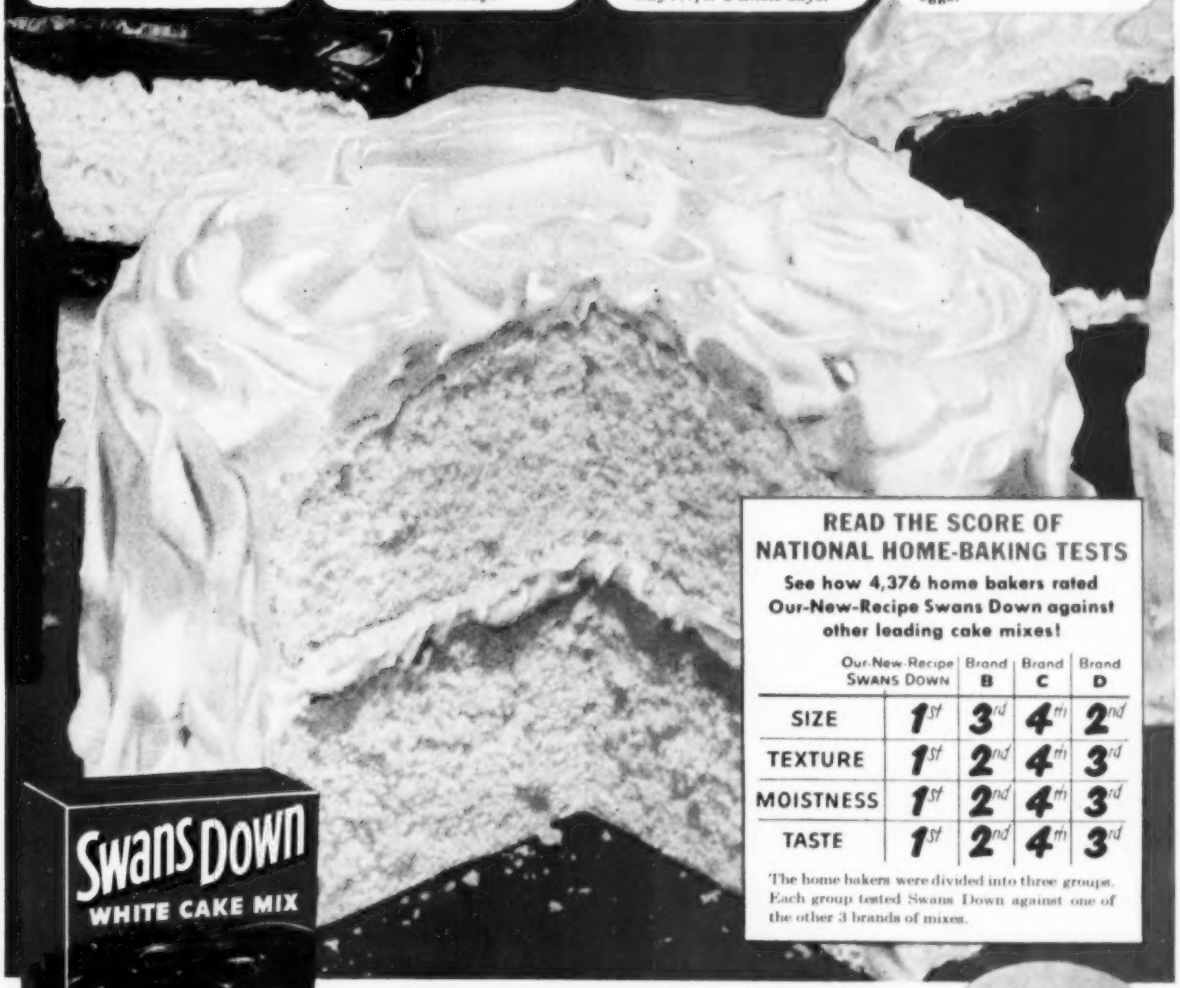
Our-New-Recipe Swans Down Cake Mixes win over all other leading mixes in national home-baking tests!

1. WIN ON HOMEMADE SIZE
On size alone, *Our-New-Recipe* Swans Down Mixes won an over-all preference vote of 2 to 1.

2. WIN ON HOMEMADE TEXTURE
Our-New-Recipe includes finest cake-makings and flour milled the famous Swans Down way!

3. WIN ON HOMEMADE MOISTNESS
You get cakes that stay as eating-fresh as cakes made the old-fashioned way . . . *for 3 whole days!*

4. WIN ON HOMEMADE TASTE
The secret? Our exclusive LOCKED-IN FRESHNESS, plus your own fresh eggs!



READ THE SCORE OF NATIONAL HOME-BAKING TESTS

See how 4,376 home bakers rated Our-New-Recipe Swans Down against other leading cake mixes!

	Our-New-Recipe Swans Down	Brand B	Brand C	Brand D
SIZE	1st	3rd	4th	2nd
TEXTURE	1st	2nd	4th	3rd
MOISTNESS	1st	2nd	4th	3rd
TASTE	1st	2nd	4th	3rd

The home bakers were divided into three groups. Each group tested Swans Down against one of the other 3 brands of mixes.

Make 'em sure! Make 'em easy!
Use the mixes with the homemade "musts"

You add fresh eggs

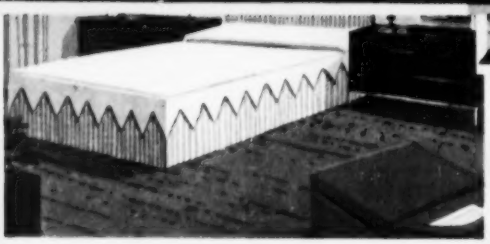
OUR-NEW-RECIPE

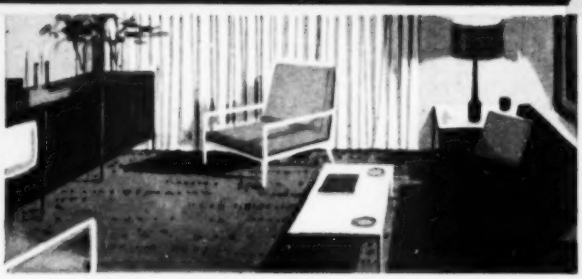
SWANS DOWN CAKE MIXES

WHITE · YELLOW · DEVIL'S FOOD

Products of General Foods

P. S. Be sure to use Swans Down Angel Food Mix for heavenly angel food cake. So sure! So easy!





magee

CARPETS AND RUGS

...MAKE A HOUSE A HOME

PENN KORD...luxurious, high pile blend of wool and Tufton rayon in random surface design...yarn treated with *Retardex*, the new soil repellent; retards normal soil, resists dirt. Available in Dryad Green (shown in background), French Rose (in bedroom), Earth Beige (in living room), and seven other decorator colors. 27 inch, 9, 12 and 15 foot widths.

SEND 25¢ FOR YOUR MAGEE DECOR-RAMA KIT TO THE MAGEE CARPET COMPANY, DEPT. S, BLOOMSBURG, PA.

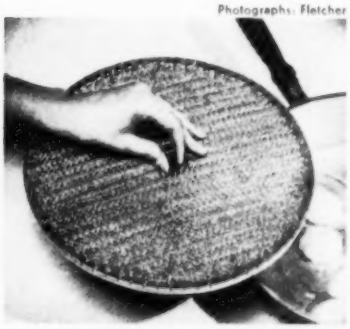
What's new *in homemaking*®

Gas range, trimmed with gleaming black and chrome, is only 19½ inches wide. Full-size oven has automatic lighting. Ready for LP gas. About $149.95.—*Perfection Stove Company, Cleveland 4, Ohio.*

Handy night light to plug in anywhere, burns all night for less than a cent. About $1 at stores.—*Monowatt, 95 Hathaway Street, Providence, Rhode Island.*

Dial meat thermometer can be used for perfecting *any* size of roast. The dial is easily read.—*Taylor Instrument Companies, 95 Ames Street, Rochester, New York.*

Photographs: Fletcher



"Filter-Fry," a lightweight, aluminum-mesh cover puts a stop to spattering from fried foods. About $1 at hardware, department stores.—*Research Products Corporation, Madison, Wisconsin.*

Fitted automatic blanket stays snugly in place for sleeper's comfort, simplifies bedmaking. In lovely colors, at prices from $47.95 to $59.95.—*General Electric, Bridgeport, Connecticut.*

Utility table wheels anywhere, has 8-foot detachable cord for use with appliances. White or colors. At department stores, about $9.25.—*Metal Products Manufacturing Company, Houston, Texas.*

Bringing Up Baby

HINTS COLLECTED BY

Mrs Dan Gerber

(MOTHER OF 5)

Very often mothers write to ask me how to perk up a teething baby's lagging appetite. Well, it's true that teethers sometimes get balky over food. But here are a few simple suggestions I've found helpful. If baby rebels at new foods, drop them for a few days and substitute his favorites. Try not to force the issue. He'll let you know when he's hungry enough to want food. Serve meals slowly and with an encouraging smile. Amazing how a bit of fun can make a tyke forget troublesome gums.

Mrs. Dan Gerber

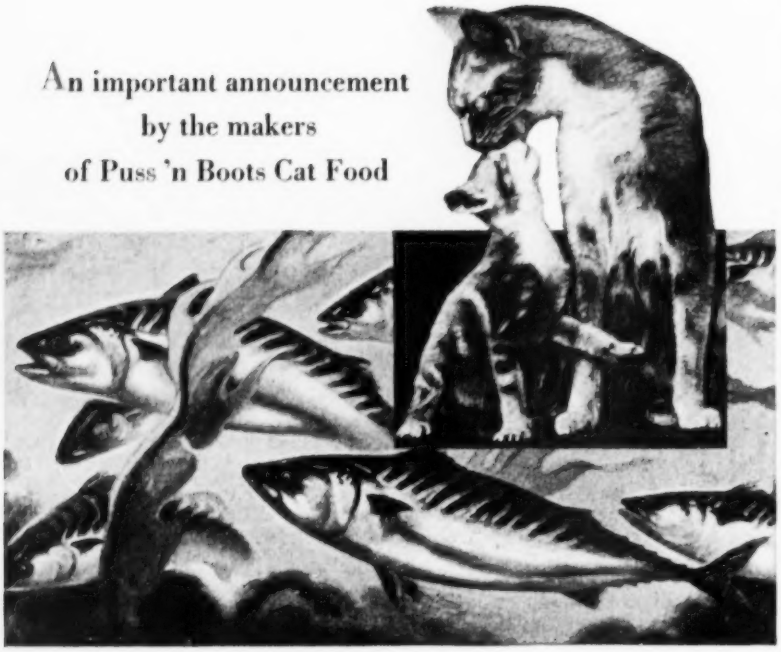
Blessed relief for tots in the throes of teething! Gerber's Teething Biscuits! Smooth-surfaced and extra hard, they're especially soothing to tender little gums . . . give baby the biting satisfaction he wants and needs. Gerber's Teething Biscuits are made of wholesome ingredients, pleasantly flavored. Individually wrapped in cellophane, so you can slip one in your pocket or purse when visiting.

Self service. Before baby is a year old it's a good idea to let him try to feed himself now and then. It helps develop independence for the second or "touchy" year when some children pout if not fed personally.

As your tot gets more teeth, he'll need more "chewing" foods. Gerber's Junior Foods fill the bill beautifully. For these good-tasting "growing up" foods have the evenly-minced, bite-size bits that encourage tots to use those new teeth. Plus the tempting true colors and true flavors that make Gerber's Strained Foods so appealing. 16 varieties, including Meats made of selected Armour cuts.

Ball game for one. When baby starts creeping, a small, brightly colored ball will aid his activity by giving him something to creep after. And you'll be surprised to find how much he learns in the way of muscle control and the art of handling himself.

An important announcement
by the makers
of Puss 'n Boots Cat Food



Now Biological Research Explains

THE LIFE BALANCE IN WHOLE FISH AND WHAT IT MEANS TO YOUR CAT

Research now strikingly demonstrates that the life-giving factors created by nature... and representing nature's own ideal life balance... make fish, *whole* fish, probably the best single food you can feed your cat.

Why "Whole" is Important

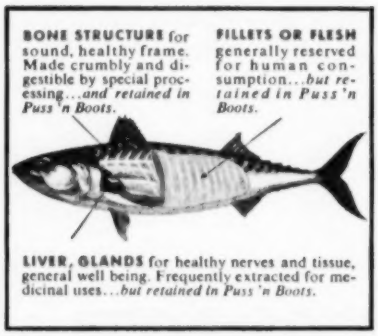
Almost any *part* of the fish furnishes *certain* nutrients. The fillets, generally reserved for human consumption, are rich in proteins. Other parts abound in calcium, phosphorous, iodine... in Vitamins A and D... in manganese, essential to reproduction.

Though each *part* of the fish contributes nutritive *elements*, only the *whole* fish represents the *nutritive whole*... the *complete inventory of life.*

The Ideal Natural Diet

That is why cats sparkle with life and beauty, when they are regularly fed Puss 'n Boots. In our canneries the whole fish is cooked and packed with added palatable and healthful cereals*. Nature's own balance of vital elements remains intact, *as it existed in the living fish.*

Whenever you buy Puss 'n Boots you are assured of this life balance. It is a distinction that has won millions of cat owners to regular Puss 'n Boots feeding. It is an inviting and satisfying way for *you* to see your cat at her very best... lovely, lively and lovable.



*The cereals, or grains, used in Puss 'n Boots add valuable elements for promoting growth and good health... contributing to flavor, digestibility, and all-round nutritional balance.

PUSS'n BOOTS

AMERICA'S LARGEST SELLING CAT FOOD
ADDS THE PLUS IN HEALTH, BEAUTY, VIGOR

Coast Fisheries, Division of The Quaker Oats Co., Wilmington, Calif.

Listen to the bugs chew!

A simple electronic device—which permits listening to sounds of insects chewing and moving inside corn, wheat, and other grains—promises to help eliminate internal grain infestation.

Built at Kansas State College, it consists of an amplifier, microphone, loudspeaker, and soundproof box. An experienced person can determine the stage of development—larva, pupa, or adult—of the pest by listening, or by recorded noise patterns.

Professors Max Milner and J. E. Wolfe, who devised the instrument, think it could be mass-produced for use by commercial and country elevators and farm bins. The complete device will go into an automobile trunk and plugs into a 110-volt line. It could be used to determine if grain in a farm bin needed fumigation.

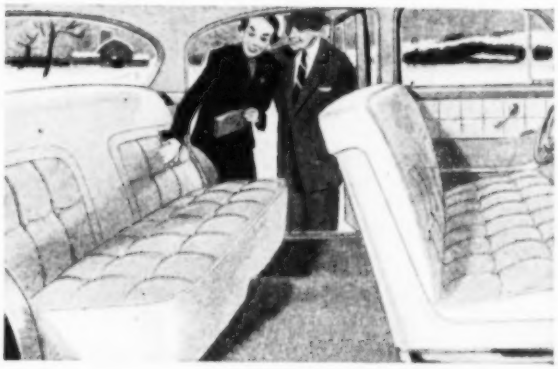
Although not yet produced commercially, the device has been copied by at least two commercial millers.—*L. B., Kansas.*

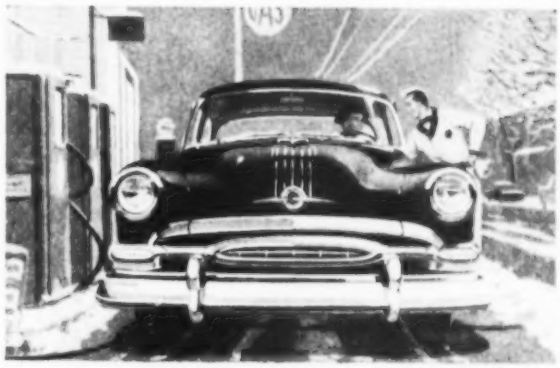
Photographs: Kansas State College

Sample is taken with probe—kernels are placed on an amplifier in soundproof box

Chewing can be heard on loud-speaker—sound waves can be recorded on oscilliscope

Dollar for Dollar You Can't Beat Pontiac for '54 . . .





Fine-Car Length and Beauty . . . Practical Thrift and Price

The new Pontiac Star Chief is far and away the biggest and most luxurious automobile ever to appear in Pontiac's low price range. This authentic fine-car style and luxury is matched by added power providing silk-smooth performance more than equal to any conceivable demand. Yet, its thrift is so great, its price is so small and its durability so outstanding that Pontiac takes first rank as a money-saver, too. See the magnificent Star Chief and beautiful Chieftain—both offering the optional choice, at extra cost, of all fine-car power controls—Dual Range Hydra-Matic Drive, Power Steering, Power Brakes and Electric Front Window Lifts.

Biggest Pontiac Ever Built—214 Inches Over-All Length
Magnificent New Beauty, Inside and Out
New Custom-Styled Interiors—New Exterior Colors
Most Powerful Pontiac Ever Built
New Roadability and Driving Ease
New, Greatly Increased Cross-Country Luggage Room

'54 PONTIAC

GENERAL MOTORS LOWEST PRICED EIGHT

PONTIAC MOTOR DIVISION OF GENERAL MOTORS CORPORATION

This
FITCHBURG CHIPPER
converts woodland waste into valuable

WOOD CHIPS

Maple Brush, Straight Blades, set 1/8"

Green and Dry Pine Slabs, Serrated Blades, set 3/32"

Pine Board Butts, Serrated Blades, set 1/16"

Orchardists find it pays to chip prunings and thinnings instead of hauling them away to burn, and leaving chips as mulch around the base of the trees.

Poultrymen find wood chips make an excellent, low-cost poultry litter ideal for shallow, or built-up manure pack. Chips are highly absorptive, reduce odors, are dust-free, "scratchable."

Dairymen find wood chips as good material for livestock bedding. Shredded wood chips used in bedding tests in the Purdue dairy barn stayed in place better than straw, ground corn cobs or shavings. Next to straw, chips were found to be the cheapest type of bedding.

FREE FOLDER gives you the facts!

Tells how to use low-cost wood chips on your farm. Gives ways to earn extra money, technical data for the Fitchburg Chipper, model types, specifications. Send for your folder today!

Fitchburg Engineering Corp.
Dept. 10, Fitchburg, Massachusetts
Send me the new Fitchburg Chipper Folder. I am interested in Wood Chips for:
Please Check ☐ Soil enrichment ☐ Stable bedding ☐ Poultry litter ☐ Garden or berry mulch ☐ Farm roads, field lanes ☐ Fruit tree mulch
Name_____
Address_____
Town_____ State_____

SALES FRANCHISES
A few sales franchises are open for well-staffed farm machinery specialists. Tell us the territory you cover.

Bug killers in fertilizer are here

'53 success on soil insects is expected to snowball use on corn this spring. Supply picture is good if you order now

By George D. Johnson

There are important new developments in the business of fertilizer-insecticide combinations. For two years we've described tests with these materials where small quantities of insecticide (usually aldrin) have been combined with mixed fertilizer. Now they're ready to go.

Reasons the idea has taken such a spurt this winter include:

- Last year's tests of these fertilizer-insecticide mixes against northern corn rootworm were a spectacular success every place rootworms were a problem.
- These same mixtures also gave good control of wireworms, seed-corn beetles, grubs, and other soil insects that hit corn early. This treated fertilizer was applied as a regular starter application at corn planting against both rootworms and these other soil insects.
- It's been discovered in Ohio that clover root borer can be controlled by band-seeding red clover with insecticide in the fertilizer. This has greatly increased second-cutting hay yields besides possibly holding clover stands over to a *second* cutting year. Red clover is a perennial.

[*Turn to page 30*

Clover root borer knocked out this Ohio ▶ red-clover stand. In same field, stand was perfect where aldrin-fertilizer mix was banded at planting time the year before

Labor-savers are Made, not born . . .

Dale Weber *(right)*, son of Jerry Weber of Coldwater, Michigan, points to generator installed on tractor by his father. Generator is driven by pulley from power take-off. At pruning time, Mr. Weber drives tractor to orchard, plugs in electric saw and prunes 25 acres of apples in less than half the time it used to take him by hand. Like keen farmers the country over, the Webers always drive into Texaco Service Stations for Fire Chief gasoline and *Advanced Custom-Made Havoline motor oil.*

This tractor-driven generator powers electric saw, cuts pruning time and labor in half.

. . . and the Best motor oil is Made, not born !

Keeping wear out of today's high-speed engines proved too big a job for the best oil nature could produce.

A better motor oil had to be built. And Texaco engineers built it. The formula: crude oil, superior refining methods, PLUS an exclusive formula of Balanced Additives.

Result: Advanced Custom-Made Havoline, a motor oil so much tougher, so advanced in lubricating ability that it actually *wear-proofs your engine for the life of your car.*

You get and keep new-engine liveliness, more power, more gasoline mileage because the motor stays cleaner, free from harmful carbon, varnish, sludge and corrosion.

Get *Advanced Custom-Made Havoline* from your Texaco Dealer, *the best friend your car has ever had.*

Wear-proofs your engine for the life of your car

THE TEXAS COMPANY

TEXACO DEALERS

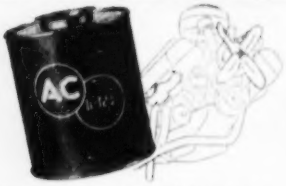
IN ALL 48 STATES

Texaco Products are also distributed in Canada and in Latin America

TUNE IN . . . Metropolitan Opera radio broadcasts every Saturday afternoon. See newspaper for time and station.

Animals Protect Themselves

Normally of a very timid nature, a Doe will fight ferociously and effectively to protect its Fawn against attacks of Rattlesnakes and other natural enemies.



AC *ALUVAC* PROTECTS MORE NEW CAR ENGINES THAN ANY OTHER BRAND

Every car, truck and tractor engine has its natural enemies too—the dust, dirt, grit and sludge that collect in motor oil—ready to attack smooth-surfaced bearings, pistons and other expensive precision parts.

AC's *Aluvac* Element provides proved protection against these engine oil enemies. Its special accordion fold gives ten times the filtering area of ordinary elements, and its specially formulated material filters out particles as fine as 1/100,000 of an inch.

Change your oil filter element at from 4000 to 6000 miles—and when you do this, change to AC *Aluvac* to make your car, truck or tractor engine run better, longer.

Optional Factory Equipment on

OLDSMOBILE

Original or Optional Factory Equipment on CHEVROLET, BUICK, CADILLAC and GMC

AC OIL FILTERS

WITH ALUVAC ELEMENTS

AC SPARK PLUG DIVISION GENERAL MOTORS CORPORATION

Bug killers in fertilizer

From page 28

● Most important, you'll be able to buy the insecticide-treated fertilizer.

At latest report 15 companies in Illinois, Indiana, Nebraska, Wisconsin, Minnesota, and Iowa will definitely offer the mixes in '54. Companies in Ohio, Missouri, and Kansas will probably also produce it.

Apparently aldrin will be the only insecticide formulated with fertilizer for corn this year. You'll be able to buy fertilizers containing ½, ⅔, or 1 pound of aldrin per hundred pounds of fertilizer. The recommended rate is ½ pound per acre of aldrin against rootworms and a pound per acre against wireworms and other seed feeders. It has been applied as a starter fertilizer through the regular fertilizer attachments as the corn planter.

The band treatment at clover seeding has been at ¼ to ¾ pound of aldrin in the fertilizer per acre.

What about costs? Forecast is that fertilizer treated with aldrin at the ½ pound per hundred rate will cost around $33 or $34 per ton extra.

You can spray on the insecticide, also, but the sureness and convenience of the fertilizer method is attractive and at a cost of $1.55 to $3 is economical.

Most of this fertilizer will be sold on an order basis so contact your dealer soon if you want to try some. On request, *Successful Farming* will send you a list of companies mixing insecticides with fertilizer this year.

New check for tough weeds

Late-fall applications of 2,4-D to the surface of the soil are more effective than spring treatments in killing deep-rooted perennial weeds in Nebraska.

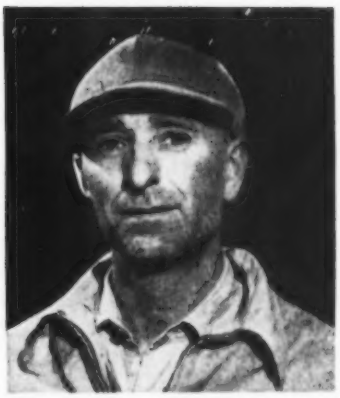
Neal Shafer, of the Nebraska Agricultural Experiment Station, reports these facts after five years of experiments:

1. Perennial smartweed, leafy spurge, Russian knapweed, and tanweed are almost completely eliminated at rates of 20 to 40 pounds of 2,4-D acid per acre applied in fall. Hoary cress can be eliminated with 10 pounds of 2,4-D acid per acre from either spring or fall applications.

2. Best results are obtained by using 2,4-D micronized acid as a spray. Amine salt was nearly as good and is more easily purchased. Low volatile ester, and isopropyl ester were not quite so successful.

3. Soil is not sterilized by 2,4-D. Bromegrass, big bluestem, switchgrass, and sideoats grama stands were not reduced in the experiments.

4. Cost per acre would be roughly one-fourth that of present soil sterilants which are needed to do the same job. Since these weeds often occur in small patches, cost will not be excessive.



"I figured it was foolish not to feed my dogs as good as I feed my chickens and hogs," says Alfred Schutte, Hennepin County farmer. "After all, I expect work from my dogs and I want them to be lively and healthy too. So I started feeding Nutrena Dog Food. (Nutrena Feeds work so good for my other stock.) That special Livium they have in Nutrena has made my dogs healthier and they have more pep. And since it's Nutrena I'm feeding I know my dogs are getting the balanced feed they need. I didn't have any trouble getting them to eat it either. They went for it right from the start."

Now to help your dog work better. . .*

Feed your dog as well as you do your stock

***Scraps may fill him up—but he needs the same body building nutrients, B_{12} and antibiotic found in Livium.**

Guaranteed analysis:

FOOD VALUE	NUTRENA DOG FOOD
PROTEIN	27%
CARBOHYDRATES	44%
CALCIUM	2.38%
VITAMIN A	4000 IU/LB
VITAMIN B-12	16 mcg/LB
VITAMIN D	1000 IU/LB

Nutrena ranks high in nutrition in every one of six vital food value factors

You wouldn't think of feeding your livestock a skimpy, hit-or-miss ration.

Well, your dogs need the same body-building help to give them the strength and stamina to work better.

And, you can now give them this vital nutrition in a complete, balanced ration simply by feeding famous Nutrena Dog Food—with special Livium for dogs.

Livium is a scientific combination of vitamins, Antibiotic, B-12 . . . actually all the vital nutrients known to be essential for long life and good health.

In addition, Nutrena is rich in protein from beef and liver...so important for sturdy bones, healthy skin and a good coat. Nutrena is also rich in carbohydrates . . . for vigor, reserve stamina and the energy needed to go hard all day long.

Your dog will really go for Nutrena, too. It contains new "Silent Scent." You can't smell it, but your dog can . . . and it makes him eat it.

In fact, we guarantee your dog will eat Nutrena eagerly from the first serving—or your money back.

So why deprive your dogs of this vital, body-building help . . . especially when Nutrena costs so little.

You can buy Nutrena in either Meal or Nugget form. Nuggets are easily fed right from the bag or box . . . Meal is mixed with water or milk. Both contain special Livium for dogs and Silent Scent.

"Silent Scent"—A new aroma discovery that makes dogs eat Nutrena—when they turn down other dry dog foods—is in both Nutrena Meal and Nuggets. Ask your Nutrena dealer for a 25-lb. or 50-lb. bag. (Also available in 2 lb. and 5 lb. boxes.)

IT'S A PROMISE...

of lovelier hands that you can be proud of!

Yes, its very name assures you of hands that look so much softer... so inviting to hold. *Lanolin Plus*, with its precious esters and cholesterols, is most similar to Nature's own skin lubricants. Dispenser free with each bottle. $1, plus tax.

Lanolin Plus HAND LOTION

IN CHICAGO...

Just a few steps from everything

The world famous HOTEL SHERMAN is a step from theatres, important office buildings, the great Marshall Field Department Store and other "Loop" landmarks. Enjoy Chicago's most convenient location *plus* the only "LOOP" HOTEL DRIVE-IN GARAGE.

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WELL OF THE SEA for seafood fresh from lakes and seas.

THE SHERMAN

CHICAGO'S MOST CONVENIENT HOTEL

Garage entrance on La Salle at Randolph St.
Telephone: Franklin 2-2100
Teletype: CG 1387

Before it was remodeled, this corner of an upstairs bedroom couldn't have been more useless—or inconvenient

◀ **Now**—full-size drawers, plenty of shelves, wardrobe space, door-mirror, and a little paint convert same area into an above-average storage spot

New storage space

in old corners

One of the biggest advantages of remodeling, according to the Kramers of Waterloo, Iowa, (see November *Successful Farming*, page 44) is the new storage space.

Storage that fills the family's needs, keeps items near their place of use, and doesn't involve moving one pile of things to get to another, doesn't just happen. The Kramers analyzed their activities and counted their possessions to see how much and what kind of space they needed. The picture in the upper right corner is typical of the waste space before remodeling. You can see what a difference the planning made.

Photographs: Hopkins

A unique idea is this clothes rod which can grow taller as Kathy grows. Notches cut in front of a vertical board at each side of the closet make it easy to move

Much handier and roomier than most magazine racks is this group of shallow shelves which could be built into most walls

◀ **Planned storage** for sewing means fewer lost patterns and equipment that doesn't have to be carried to the sewing machine

IT'S MATICO ARISTOFLEX

new, low-cost vinyl-plastic tile flooring that resists grease, acid and alkali.

You'll smile at spills and spatters on your ARISTOFLEX floor 'cause it's so joyously easy to clean. Even harsh acids and alkalis wipe right up without a trace . . . your floor sparkles like new at the swish of a mop. You can install this wonderful, modern floor in every room in your home—from basement to attic. And ARISTOFLEX comes in 13 radiant colors, so you're sure to find just the color you want.

For durable beauty, for effortless upkeep, for real economy, style your floors with low-cost MATICO ARISTOFLEX.

INSTALL IT YOURSELF AND SAVE!

It's easy to install ARISTOFLEX *yourself . . . and you save up to $25 or $30 a room. Mail coupon today for complete instruction kit and* ARISTOFLEX *color chart.*

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Right now—set your sights on a good big boost in corn profits from each acre in 1954. The PROVED-SUPERIOR G-Hybrids adapted to your farm can put you in the top-yield class . . . when you back up those G-Hybrids with your farming know-how, including balanced fertility, the right thickness of planting, control of weeds and insects, and other good farming practices.

Top Profits—Year After Year

Thousands of customers each year tell us their Funk's G-Hybrids have given them top yields and dependable performance—in good seasons or poor. Balanced performance in each G-Hybrid is the result of over 35 years of research, backed up by nation-wide testing.

Fine new G-Hybrids, as well as established favorites are ready to help you make more corn profits—every year. Your dealer will help you choose the right G-Hybrid for your farm. *You Will Get Top Quality Seed. Order Now.* In 1954, get going toward your BEST corn crop.

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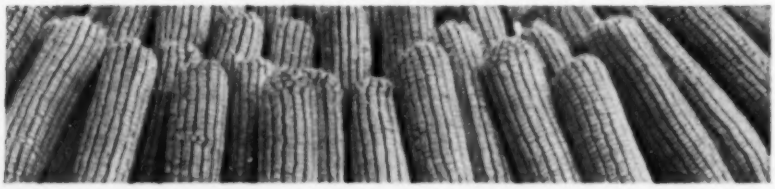
FUNK'S G-HYBRIDS

Consistently Good, Year After Year



Libraries

Drawing: Davidson

By Ingram See

Your state library has an annex in your living room.

With just a 3-cent stamp you can get books, and—in many instances—music, paintings, colored slides, and motion pictures to use at home. In every state capital there's a library or library commission working to make these resources available to residents who have no local library, or whose local libraries are limited.

How do you take advantage of this service? Write directly to Librarian, State Library, at your state capital, and name the books you want or the subject on which you wish information. Your only expense is postage both ways: 4 cents for the first pound and 1 cent for each additional pound. If there is a local library in your area, go through it to borrow from the state library what the local lacks.

You can sit home in your easy chair and educate yourself on any subject from auto mechanics to zoology. The postman does the footwork. Just name your subject—there are books on it: fixing a flat tire, oil painting, Spanish, tatting, or taxidermy.

In Illinois, you can borrow as many as 10 books at one time. Usually they must be returned in four weeks. Records and pictures are loaned for two weeks, with a privilege of renewals upon request. Most state libraries have similar time limits for checking out material.

If a query to your state library reveals it is not functioning with 100-percent service to its residents, prod your legislators. Although every state has passed bills creating library extensions, a few are laggards. Don't let your state be among them.

Well-staffed state libraries also have card files of books in all sizable libraries in the state. A farm woman in New Hampshire asked her state library for a certain text on breeding canaries. It wasn't there, but the file showed it was in the library at Manchester, New Hampshire. She received it on an inter-library loan.

Progressive state libraries are promoting bookmobiles and county libraries to

R. F. D.

In addition to books, you can borrow paintings, records, and motion pictures. Here's how

serve sparsely settled areas. And whole collections of books can be sent to communities. There's one requirement—reputable persons there must guarantee the books' safety, free dispersal, and an accessible place to keep them, which may be anywhere from a church to a local barbershop.

Most state libraries will prepare bibliographies on whatever subject you're curious about. And if you live in New York or Illinois, there are expertly planned reading courses in which you can enroll. Many other states are preparing such courses.

When you need information from reference books which can't be mailed, the staff will copy passages. Many have photostating equipment with which to furnish long excerpts.

You can get magazines, too. Iowa has one of the finest collections of early magazines in the country. It's fun to check through old issues of your favorite magazine to see how times have changed.

If your questions stump the librarian, he'll forward it to an agency that does know the answer. A woman asked the Alabama State Library, "Will the refuse from my goldfish enrich the dirt in which my flowers are growing?" She got a detailed answer from the state's agricultural department.

Sometimes, on-the-job librarians perform tasks above and beyond the call of duty. A letter received at the Colorado State Library read, "Please send me that small red book, again."

The librarian was about to put the letter aside with the requests that couldn't be filled when she noticed a postscript saying, "Please rush, there's only a week left." Guessing at the subject, she checked the patron's orders for the same time the previous year—then sent him a little red book on computing income tax.

Whatever your problem, your state librarian will try to help you if there's a solution in print. Because of their vast educational potential, the state libraries have been called "The People's Universities." It's a safe bet that no other university has such low tuition.

Abe Lincoln, you know, walked miles to borrow a book. But you're as close to a well-stocked library as you are to your mailbox. **END**

P. S. from P. A.: The ladies welcome P. A.'s light, clean aroma when the menfolks smoke it!

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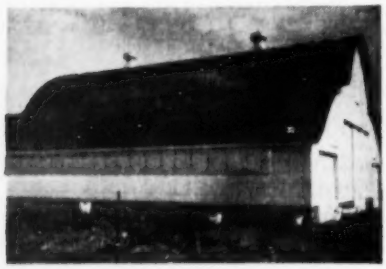

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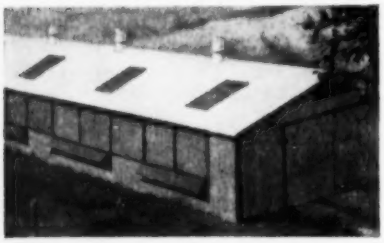
Corrulux provides more comfortable buildings for your livestock. It reduces heat input in summer, heat loss in winter. Corrulux corrugated sheets nest with metal or asbestos without additional framing. Tough Corrulux is weatherproof, extremely resistant to hail. Gives years and years of service.



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Corrulux daylighting in your poultry houses keeps them brighter, more sanitary, for better egg or meat production. Corrulux has many other daylighting uses — implement sheds, milk houses, loafing barns. Sheets flat or corrugated. Widths to 42". Lengths to 12'.

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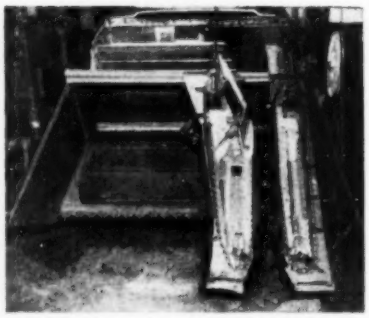
PLEASE PRINT

Harvest corn with combine?

Agricultural engineers at the Nebraska Experiment Station have, in the first experimental stage, a device which may make it possible to adapt a combine to harvest corn. If proved, this would permit the farmer to use his combine to harvest all his grain. It fits over the cutting bar.

According to L. W. Hurlbut, chairman of the Agricultural Engineering Department, it is possible to replace the regular threshing cylinder with a corn-shelling unit or to add a shelling unit to combine.

Photographs: University of Nebraska



Stalks are cut off by the cutting bar. They then move behind a holding arm where gathering chains tip stalks back against small spiral section of lower snapping roll. Snapping rolls are set at an angle

Spiral band pushes the stalks between snapping rolls — stalks move laterally with the rolls and then are discharged forward over the cutting bar. The ear is elevated into the shelling cylinder of the combine

Latest on frozen semen

More and more artificial-breeding associations are using frozen semen either experimentally or on a practical farm basis. This new technique is probably the most important yet in artificial breeding.

Proof is piling up that frozen semen can be used successfully. Calves are arriving every day as a result of breeding cows artificially with frozen semen.

Here's why this new breeding development is so important:

1. A semen "bank" can be built up. The semen from a certain sire would be available at any time.

2. Frozen semen lets you select bulls for special matings, line breeding, or for other breeding systems.

3. Semen from proved sires can be stored for future use. It may even be possible to store this semen and use it long after the sire is dead.

Rapid progress is being made in working out the "bugs" connected with the use of frozen semen. Special equipment for processing, freezing, and keeping semen under −110 degrees is being developed.

Although a slightly lower conception rate has resulted from the use of frozen semen, the manager of a large artificial-breeding association says this disadvantage is temporary. The techniques are being worked out and will eventually result in as good or better conception rates as those obtained by use of liquid semen.

Atomic war on wheat and flour bugs

Researchers in the Agricultural Engineering Department at Michigan State College are working to open up a new field of subatomic service—killing cereal bugs.

Early results show promise that granary weevils and flour beetles can be controlled with cathode rays. The only drawback is expense.

The research team was able to determine just what variations of a two-million-volt "bullet barrage" were needed to kill granary weevils and flour beetles, and sterilize their eggs.

ONE! TWO!

Quick!

1.

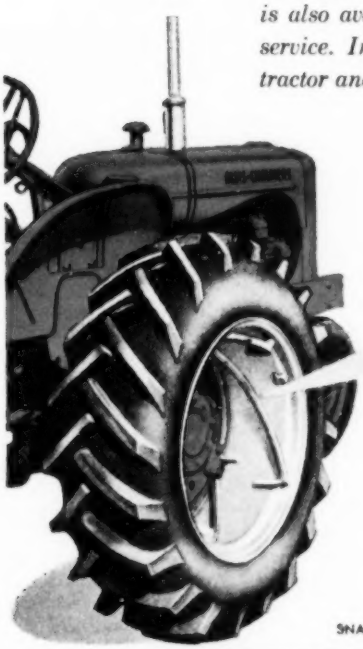
SNAP-COUPLER

Now comes the handiest quick-hitch for mounted implements ever devised. It's automatic! It's a SNAP!

No jockeying into position. No hitchpins to line up. Just back your CA or WD-45 tractor to engage the SNAP-COUPLER. A wide funnel guides the Free-Swing Implement tongue into a single master hitchpoint. *Snap* ... it latches! Close the two lift-arm couplings and drive away!

To detach, step on the trip-latch and drop lift-arm couplings . . . that's all!

***Good News for CA and WD Tractor Owners**—the SNAP-COUPLER is also available for CA and WD tractors and implements now in service. Inquire about the SNAP-COUPLER kit for your CA or WD tractor and mounted implements at your Allis-Chalmers dealer.*



2.

Power-Shift Wheels

Quick-hitch alone is not the whole story. It's quick *everything*, the Allis-Chalmers way. Engine power spaces the rear tractor wheels . . . *instantly!*

Now you can match wheel spacing exactly to rows, furrows, swath or tillage tool width.

Do it without jacks, hoists or heavy wrenches. Be first in the field in your neighborhood. Attach implements and space wheels . . . one! two! QUICK!

SNAP-COUPLER is an Allis-Chalmers trademark.

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New GE Automatic Visualizer Iron

Visualizer Fabric-dial! Gives you the right heat for the fabric you're ironing—no more guesswork, no scorching! Special setting for popular new synthetics.

Automatic Signal Light! It flashes off the instant your iron is at the temperature you select! Takes only a few seconds to heat—actually less than a minute.

Larger Soleplate! You iron in broad, sweeping strokes, going right around buttons in a breeze with the new enlarged button nooks.

Lightweight! Only 2½ pounds! Heat, not weight, irons your clothes beautifully. You'll speed through your ironing in less time than ever!

The beautiful new G-E Visualizer Iron saves you work and time with your ironing. See it today at your General Electric dealer's.

General Electric Company, Small Appliance Division, Bridgeport 2, Conn.

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Manufacturer's recommended retail or Fair Trade price.

GENERAL ELECTRIC

Vitamin-A deficiencies

in drouth areas

If you live in an area that was short of pasture last summer, and you are short of green hay or silage now, watch your cattle closely for signs of vitamin-A deficiency. This lack of vitamin A is most likely to show up in the next couple of months and *can be very serious.*

Right now, if you are feeding green hay or 10 pounds per day of good silage, you probably won't have to worry about vitamin-A deficiency troubles. But, if your cattle are being carried through the winter on low-quality roughages that lack greenness, you may be headed for trouble.

You can head off vitamin-A deficiency troubles easily and cheaply by adding a vitamin-A supplement to your protein feed. It can be bought at feed stores, drugstores, and from some veterinarians.

The amount of vitamin-A supplement to mix with the feed depends on the number of units per gram, and on how much protein supplement you feed per day.

For example, if you buy a vitamin-A supplement carrying 5,000 units per gram, and 1½ pounds protein supplement per day is fed, then you should mix 18 pounds of vitamin-A supplement with each ton of protein feed. Or, mix about 1 pound of vitamin-A supplement to 100 pounds of soybean or cottonseed meal.

What happens if your cattle are short on vitamin A? One of the first symptoms will be night blindness, or inability to see in the dim light. Other symptoms are respiratory troubles, pneumonia, staggering, paralysis, excessive watering of the eyes, and nasal discharge.

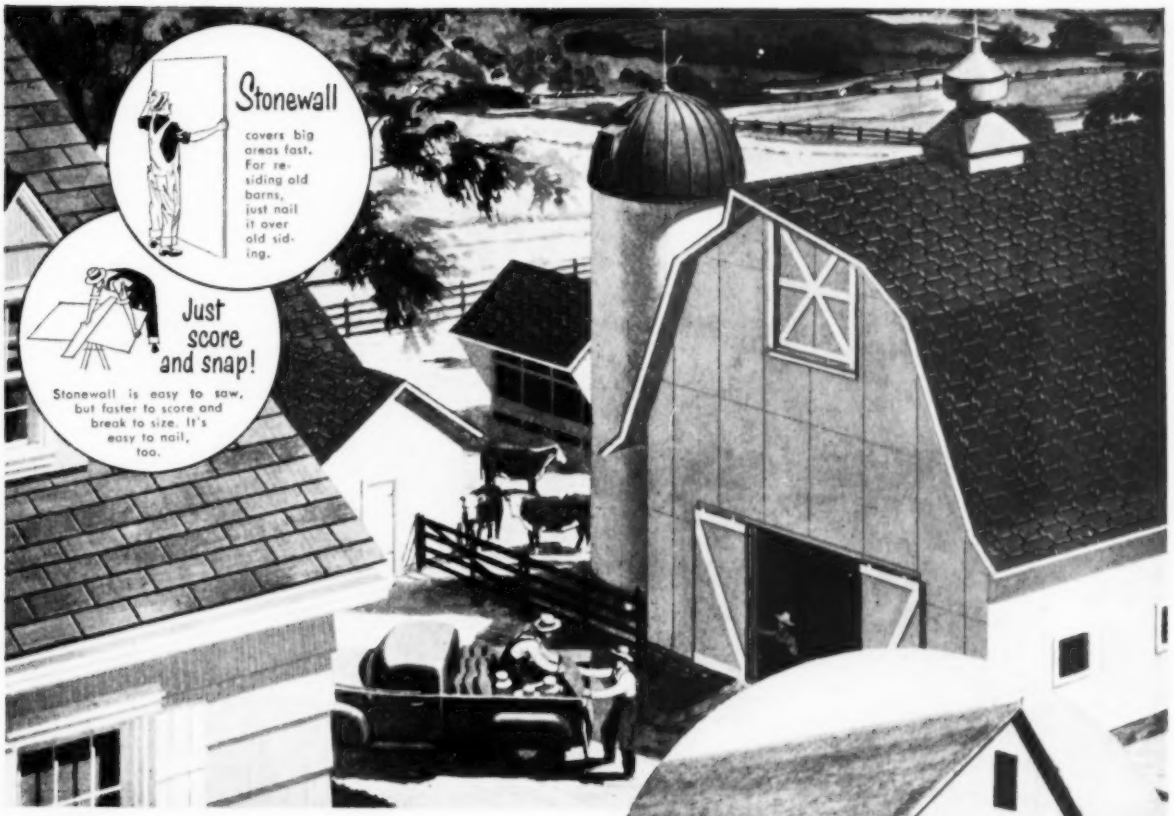
Another result of vitamin-A deficiency may show up later in the form of breeding or reproductive troubles. Cows may not conceive, or if they do, the calves will usually be born dead or so weak they soon die. Fertility of bulls also may be affected.

Good news for thirsty rats

Liquid warfarin has been temporarily withdrawn from the market.

Ward Ross, managing director of the Wisconsin Alumni Research Foundation, says liquid warfarin is to be field-tested in all parts of the country, under all conditions. Soluble warfarin may be on sale again following the tests.

In November, 1953, *Successful Farming* first announced the use of soluble warfarin for controlling rodents around grain stored on the farm.



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Stonewall makes old barns new, speeds re-siding and provides tight, sanitary, easy-to-clean interiors. It will save you time and money in many ways. Send coupon for complete descriptive folder now.

This typical example shows how Stonewall Board has changed hundreds of leaky, dilapidated old barns to sound, weather-tight, attractive buildings.

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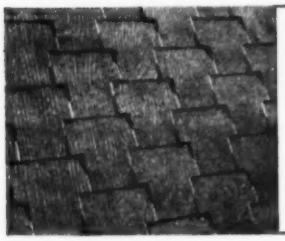

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the favorite 4-suit card game

Everybody loves the fascinating game of Rook, because it can be played so many different ways. Single Pack, $1. New 4-Pack Party Edition, $3.

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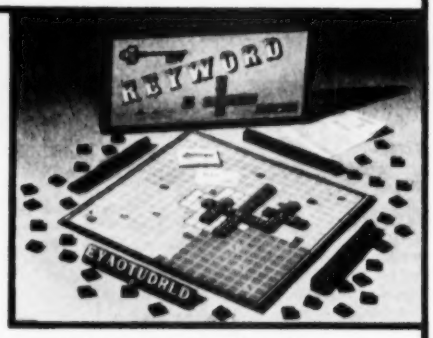


Ask by name for these famous

PARKER GAMES

at all leading stores

All around

Here are tips to help you save some time, space, steps, work

● Before putting paint cans away after using, it's a good idea to indicate the level of the contents with a mark on the outside of the can. Later, when you're getting ready to paint, you'll be able to tell easily if there is enough paint of the desired color.—*Miss Irene Saari, Minnesota.*

● **When I make a laundry bag, I add two small pockets on the outside, one for hosiery, the other for handkerchiefs. It keeps these small items from getting lost among larger items, and protects nylons from snagging on zippers, snaps, or any other rough surfaces that might be in the big laundry.—*Mrs. Michael Fey, Ohio.***

● Foods such as soda, cornstarch, cake flour, and some cereals have no inner waxed bag to protect the contents from dust after opening. Use a plastic bowl cover over the tops. It's quick to remove, washable, and reusable.—*Mrs. Clifford Roue, Minnesota.*

●**Why not press freshly churned butter into milk cartons with the tops cut off? Saves space in refrigerator. When they're needed, I cut off the carton, too, peeling paper from the butter. It doesn't stick because insides of cartons are waxed.—*Mrs. Edgar Krohnke, Iowa.***

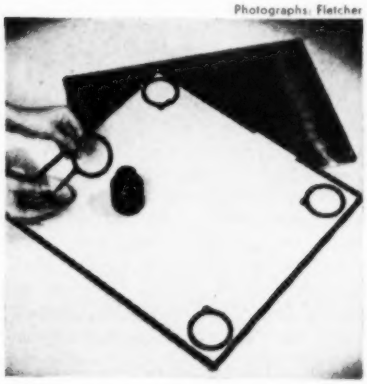
● Take pajama coats to the sewing machine and stitch down the front facings. This takes very little time but will enable you to iron them faster and easier.—*Mrs. F. L. Pierson, Nebraska.*

● **Pressing a pleated skirt is simplified by using a loop of string attached to a weighted object such as a bottle to hold the pleats flat. The pleats are pressed up to the string, and the string is removed before finishing. This is faster than pinning the pleats.—*Mrs. Adrian Burt, Wisconsin.***

the house®

● To keep your long-sleeved nylon sweaters from stretching at the shoulders, try this simple trick. Wash the sweater and stretch it, as you would a wool sweater, to the proper fit and allow it to dry thoroughly in the stretched position. When dry, cut two strips of bias tape, each about 1½ inches longer than the proper length of the shoulder seams. Take these strips and pin them onto the inside shoulder seam, being very careful not to stretch the weave of the sweater. The ¾ inch to 1½ inches is to be turned under to prevent raveling of the tape. Now hand-stitch it in place. This idea also works on the necks of cardigans.—*Miss Ellen Schulz, Nebraska.*

Photographs: Fletcher



● If the metal pad you use on the top of your range slips when you are working on it, try gluing rubber jar rings to the corners.—*Mrs. C. E. Gillum, Virginia.*

● Made to order for house cleaning—a pair of good-fitting dusting mitts made simply by cutting the legs off your child's worn sleepers. They fit over your hands, and, being soft, do an excellent job of polishing.—*Mrs. Carl Sidle, Ohio.*

● I use cellulose tape to fasten screws to towel bars, can openers, closet bars, and so forth when I take them down to redecorate. Then at time to rehang, the screws are right where I want them.—*Mrs. James Herin, Michigan.*

● A small cream separator can be made for the home that gets less than a gallon of milk. Have a ⅛-inch pipe-fitting petcock soldered to the side of an empty gallon can ½ inch from the bottom. After standing in the refrigerator a short while, the milk can be drained out, leaving the cream.—*Mrs. Howard Cecil, Nebraska.*

● If a plastic bowl cover is slipped over the bottom of your flour sifter, your cupboard shelf will stay neat and clean.—*Mrs. Leland Beyer, Illinois.*

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

ONLY NEW COLGATE DENTAL CREAM HAS THE CLINICAL PROOF

that brings new hope to millions for

Lifetime Protection Against Tooth Decay!

Actual use by hundreds of people has proved the long-lasting protection of New Colgate Dental Cream with Gardol*! Tests supervised by leading dental authorities—for a full year—proved this protection won't rinse off, won't wear off! Proved just daily morning and night use guards against decay-causing enzymes every minute of the day and night!

New Colgate Dental Cream is the greatest scientific achievement in toothpaste history—the *only* toothpaste in the world with clinical proof that brings new hope to millions for *Lifetime Protection* against tooth decay!

For only New Colgate's contains Colgate's miracle ingredient, Gardol (Sodium N-Lauroyl Sarcosinate). And because Gardol's protection won't rinse off or wear off all day, just daily morning and night use guards against decay *every minute* of the day and night!

Actual use, by hundreds of people, showed the greatest reduction in tooth decay ever reported in toothpaste history—proved that most people should now have far fewer cavities than ever before!

Yes, clinical and laboratory tests both prove it! New Colgate Dental Cream with Gardol, used *regularly* and *exclusively*, offers new hope to millions for *Lifetime Protection* against tooth decay!

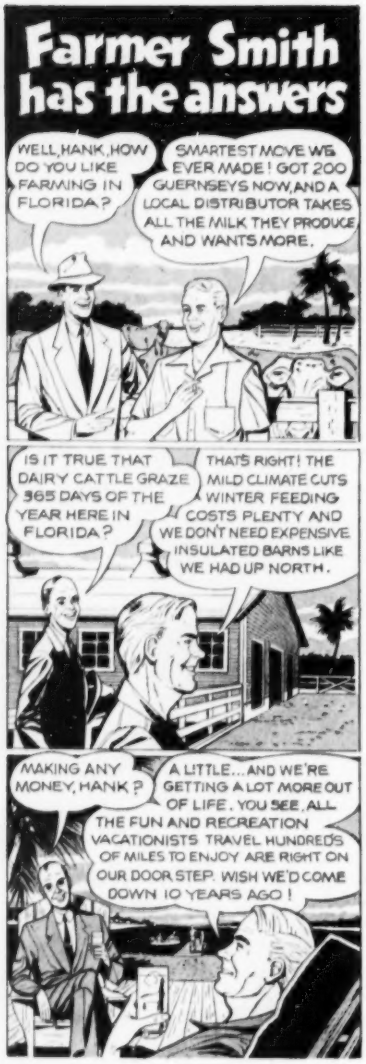
A JURY OF DISTINGUISHED DENTISTS HAS EXAMINED THE EVIDENCE! Documented facts, recently published in an authoritative dental journal, have convinced these dentists that Colgate Dental Cream with Gardol is far more effective against decay-causing enzymes than any other toothpaste. And because Gardol is the *only* long-lasting anti-enzyme ingredient with clinical proof, these dental authorities agree that New Colgate's with Gardol gives the surest protection against tooth decay ever offered by any toothpaste.

*Sodium N-Lauroyl Sarcosinate

No Other Toothpaste Offers Proof of Such Results!

Cleans Your Breath While It Cleans Your Teeth!

FOR LIFETIME PROTECTION AGAINST TOOTH DECAY



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SPECIAL REPORT

What will you do with those "Extra" acres?

This year about 30 million acres will be shifted from wheat, corn, and cotton, by acreage allotments and marketing quotas. That's an area equal to the *harvested cropland* of Indiana and Illinois.

What will be done with these diverted acres—not only this year, but also in coming years when we have acreage controls?

Lights have been burning late in the United States Department of Agriculture as officials try to come up with a workable answer.

The U.S.D.A. specialists know that your land—whether it is farmed or not—must pay taxes, interest on investment, and depreciation and repair of buildings, fences, and ditches. So, you naturally will want to plant these diverted acres to such crops as oats, barley, grain sorghums, and soybeans.

But this shift in crops can complicate the support problem. There is little sense, officials argue, to reduce production of some commodities—and allow surpluses of other products to build up. *But there is much sense, they say, in using the diverted acres as a basis for moving closer to conservation farming.*

So, you can look for any program developed by U.S.D.A. for diverted acres to have two objectives:

1. To discourage heavy planting of other crops on diverted wheat, corn, and cotton land.

2. To nudge farmers in the direction of erosion control, soil improvement, and livestock production.

How to reach these program objectives, of course, is a big problem. Right now the Department of Agriculture is receiving—and studying—many suggestions. They fall into two general categories: The first includes programs where compliance with acreage allotments would be required to get price support. The second includes programs under which *payments* would be made to urge you to cooperate.

Here are some proposed compliance-type programs:

Inter-commodity compliance. Under this program you would have to comply with all acreage allotments established for your farm to obtain price supports.

Acreage-limit program. Under this plan, you would be entitled to price support only if you comply with allotments and stay within an acreage limit for *additional* crops where any substantial acreage increase would complicate the supports.

Two programs would blend compliance and conservation.

Minimum conserving acreage. This program would require you to put in at least a certain acreage of soil-conserving crops, assigned for your farm to get price supports.

Comprehensive land use. Under this program, if you want price support, you'd have to stick to a land-use program tailored to your farm and covering a complete rotation cycle of three to five years. The program for your farm would consider long-time conservation and soil-improvement objectives—and it would be based on a careful farm-by-farm analysis.

The payment-incentive programs being considered include:

Minimum conserving acreage program. Here you would get a cash payment if you put in the *minimum acreage of soil-conserving crops* established for your farm. The rate of payment per acre could be varied according to the land.

Allotment payment program. You would get a cash payment, based on the normal yield of acres taken out of production—provided *all* acreage allotments for the farm were complied with.

Acreage rental program. This plan would provide that all or part of the diverted acreage—depending on the reduction required—would be rented from you.

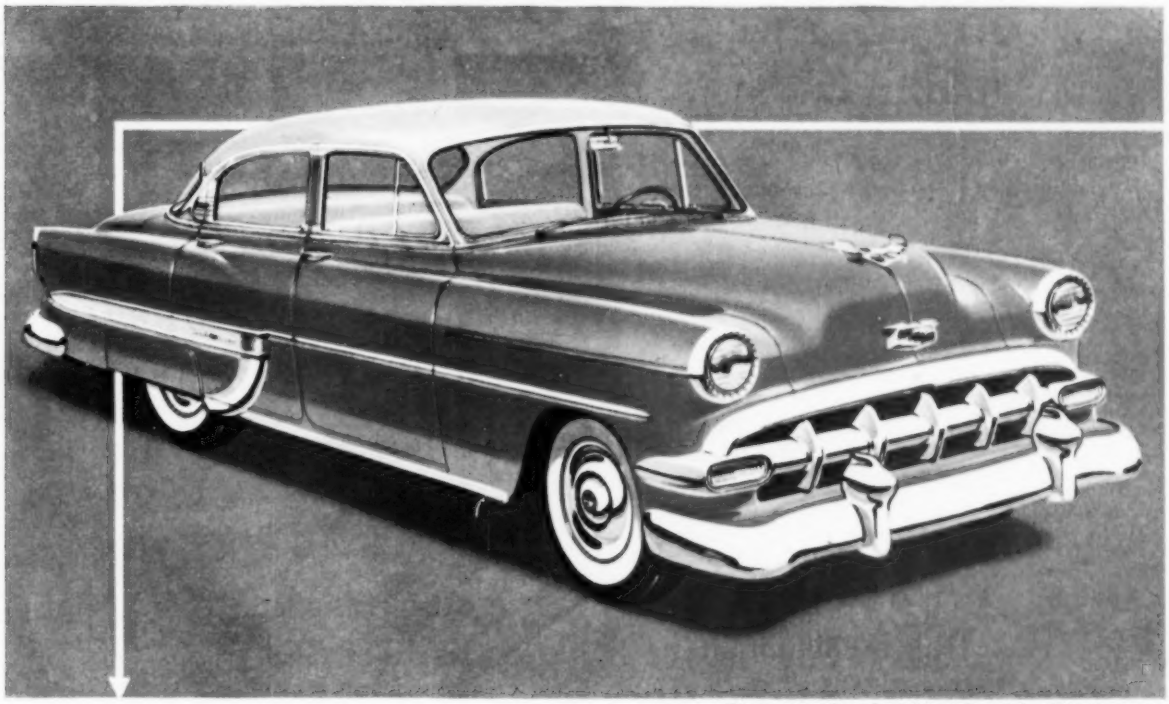
How have they worked before? Government programs similar to some of these were in effect in the 1930s and 1940s—and some worked pretty well.

For instance, remember back to 1936, when all crops were classified as either soil depleting, soil conserving, or neutral. The per-acre rate of diverting from the general soil-depleting base to a conserving crop averaged $10. About 31 million acres were diverted then.

It is far too early even to guess at the kind of program that will finally be approved for making the best use of diverted acres. The realities of the situation, however, point to: *A program embodying rigid provisions for compliance with acreage allotments, as well as rather generous payments designed to soften the economic shock of shifting from a crop to a conservation basis.* **END**

The New 1954 Chevrolet

Powered for Performance! Engineered for Economy!



The new 1954 Chevrolet Bel Air 4-Door Sedan. With three great series, Chevrolet offers the most beautiful choice of models in its field.

Brimming with beauty outside and in . . . new power and economy . . . this is the new car that combines finer performance with money-saving gas mileage!

You can sum up this new 1954 Chevrolet in one simple statement of fact: *It offers more of the things you want—at lowest cost—than any other car ever offered you before.*

For instance, there's great new high-compression power to bring you finer performance and outstanding economy on country roads as well as in town.

Then, there's eye-pleasing new beauty outside and in—exciting new colors, new and finer fabrics, new styling refinements all around the car.

And besides, the new Chevrolet for '54 brings you the wonderful convenience of new automatic front window and seat controls, if you wish.*

You'll find all this and much, much more awaiting you in the lowest priced line in the low-price field. See your Chevrolet dealer and see how Chevrolet offers more things more people want . . . the reason why more people buy Chevrolets than any other car! . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

Some important new Chevrolet advantages . . .

New styling that stays new. Chevrolet's the only low-priced car that offers you Body by Fisher. And fresh, new 1954 styling outside and in makes it even more of a stand-out.

Thrifty new power in all models. Two great engines—the "Blue-Flame 125" in Powerglide models and the "Blue-Flame 115" in gearshift models.

New automatic window and seat controls. A touch of a button adjusts front windows. Another control positions the front seat to your liking. (*Optional on Bel Air and "Two-Ten" models at extra cost.)

Powerglide for all models, and a new low price on Power Steering. Now you can have smooth, thrifty Powerglide automatic transmission on any model—and enjoy the ease and safety of Power Steering at a saving. (Both features optional at extra cost.)

SYMBOL OF SAVINGS
CHEVROLET
EMBLEM OF EXCELLENCE

New, Revolving Shelves put all foods at your fingertips!

A simple twist of the wrist, and the back area of the Revolving Shelves is right in front. Furthermore, the inside refrigerator walls are rounded to accommodate *extra-large* shelves.

You *see* what you want. You *pick up* what you want without overturning other foods. No more hard-to-reach corners where leftovers are forgotten.

You can widen—or narrow—the spacing between these sturdy shelves to accommodate bottles, jars, bowls and pies without removing the food *and without lifting the shelves.*

Model illustrated holds more than 12 cubic feet of fresh and frozen foods! G-E models priced as low as $219.95.

See them at your G-E dealer's. Look for his name and address in the classified telephone directory. General Electric Company, Louisville 2, Kentucky.

ABOUT $5.90* WEEKLY

True Combination Refrigerator-Freezer

Model LH-121L

** After small down payment. See your dealer for exact terms. Price of model LH-121L (illustrated) is $549.95. Prices and specifications subject to change without notice.*

There's more shelf room in the new G-E with Revolving "Turn-Out" Shelves than in the previous corresponding General Electric model with conventional shelves.

General Electric Refrigerators are available with either right- or left-hand doors.

Two separate and complete appliances in one cabinet!

The true, zero-degree freezer is built just like a floor-type freezer. Has its own separate refrigerating system, its own separate door. Keeps up to 89 packages of frozen foods as long as a year.

Automatic defrosting refrigerator section is *completely* automatic. No clock to set, no buttons to push, no pans to empty. Humidity is controlled so that foods remain *moist-cold* and *fresh.*

So dependable. More than 3,500,000 G-E Refrigerators in use 10 years or longer!

GENERAL ELECTRIC

***Successful Farming* is first to bring you this report on the most complete feed-handling study ever attempted. Results are based on experiences of 100 practical beef feeders**

Faster, easier feed handling

By R. N. Van Arsdall and Vernon Schneider

Methods of handling feed and silage have stood still for 40 years on the average farm.

Today, Midwest cattle feeders spend almost as much labor to produce 100 pounds of beef as they did 40 years ago. Little progress has been made in reducing this labor load.

In 1951, a research team made up of agricultural economists and engineers from the United States Department of Agriculture and the Illinois Agricultural Experiment Station set up a study to find out the *fastest, easiest, and cheapest* ways to handle feed. They visited about 100 typical beef-feeding setups in northern Illinois, observing their methods of handling feed and listening to their stories.

A detailed study was made on 36 of these setups. They timed feeding operations with a stop watch, marked travel distances on a scale drawing of the farmyard, and weighed the feeds handled. Also, they calculated the cost of owning and operating different types of feed-handling equipment. Here is what they found:

The kind of silage storage, equipment, and method of feeding all influence feeding efficiency. However, the way you *use* equipment may have a greater effect on labor and cost than the type of equipment. Purchase of new equipment does not necessarily solve the problem. Often the greatest saving in labor can be made through *rearrangement* of what you already have.

Each of several methods of moving feed from storage to cattle has advantages. In most cases, it is practical to use the same equipment for hauling both silage and [*Turn to page 46*

His feeding system is divided into two feedlots—one for heavy cattle, one for light cattle (see plan below).

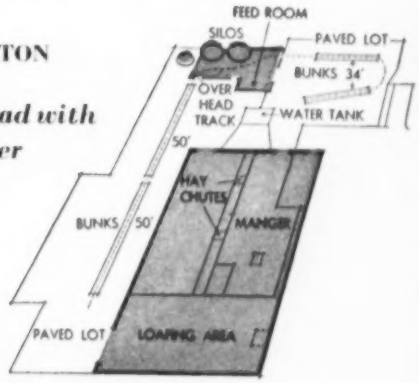
Two 20-bushel carrier boxes have adjustable openings in bottom for feeding grain (see picture, above). Bottom also is hinged for feeding silage.

A surface unloader in silo keeps supply of silage ready. Grain is dumped on feed-room floor. Boxes are lowered for filling (see picture, left).

Feed bunks are placed in line on feeding floor—cattle feed from both sides.

GLENN MIDDLETON
Maple Park, Illinois

Handles 200 head with overhead carrier



See next page for more feed-handling ideas

. . . here are two more top feeding systems included in the study

Highlights of this feeding study:

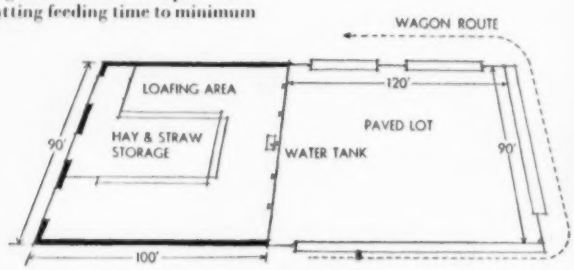
- ***New equipment does not necessarily save labor. Simple and inexpensive rearranging of what you have may be your best bet.***
- ***Carrier on overhead track is one of best methods for feeding average herds.***
- ***Self-unloading wagon, with fence bunks, is most efficient for feeding large herds.***
- ***Tractor scoop is the least expensive and fastest way to handle silage mechanically.***

Hay and straw are stored at ground level in center of all-steel loafing barn. Bales stored on ground are easier to store and feed. Manger encloses 3 sides of storage area. Open side of barn faces lot, making manure handling easy

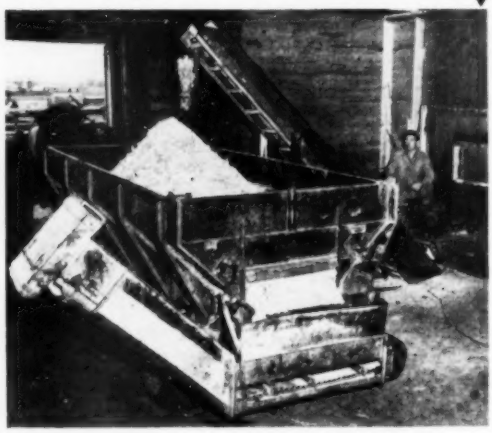
GENE DUNCAN, Malta, Illinois

Machinery makes his a one-man operation

Convenient arrangement of feedlot, bunks, and buildings makes this a compact feeding unit, cutting feeding time to minimum



Push the button and machinery does the rest. Elevator moves the silage from bottom unloader on airtight steel silos to wagon. Duncan does other chores while wagon is being filled. Supplement is stored in bin next to wagon



Self-unloading wagon, operated by power take-off of tractor, unloads feed as Duncan drives slowly alongside fence bunks. By placing grain and protein supplement on top of the silage, the entire feeding job is completed in one sweep

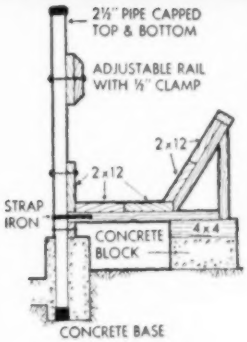
concentrates. Size of the herd, amount of labor available, arrangement of the feeding area, and kind of storage help determine the best method of moving feed.

Don't use a basket for feeding more than 15 or 20 head of cattle. Some kind of feed-carrier system will be easier, faster, and only a little more expensive.

For small to medium-size herds, an overhead carrier provides one of the best methods of moving feed. A carrier system works well where the arrangement and location of buildings do not permit the use of a wagon. With a convenient carrier layout, silage-grain mixtures can be loaded and put into bunks at the rate of about 90 pounds per minute. Carriers are most effective for herds of less than 100 head.

In order to save labor with a carrier, make the track as *short* as possible. Place

Pride of Williamson's feeding system is 180-foot fence bunk. Curved bunk makes easy driving route. There's no gate to open, no going into lot. Sloping lot drains water away from bunks



Fence bunk is built with no crosspieces to hinder cleaning. Cattle can't damage bunk; it can't mire in manure. Rail can be adjusted for different-size cattle

JOHN WILLIAMSON, Yorkville, Illinois

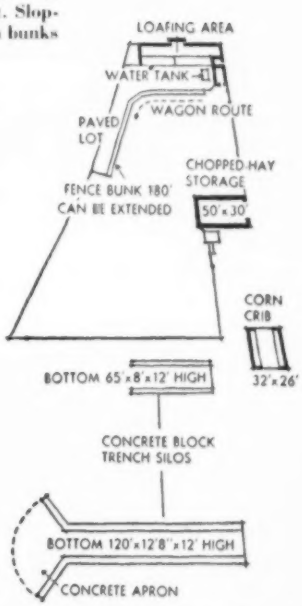
His system handles 120 head—can be expanded

the end of the bunk near the feed-room door so you can walk in the bunk while feeding. Use a large carrier box—one with a 20- to 25-bushel capacity—to keep the number of trips to the minimum. Put concentrates in overhead bins. Build a slope-floored catch bin beneath the silo chute slightly above the level of the carrier. Then you can *rake silage into* the carrier rather than scoop it from the floor level.

Cost of using carrier equipment averaged 15 cents per ton of feed handled.

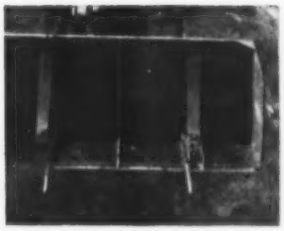
The most widely used equipment for moving feed is the farm wagon pulled by a tractor. Distance is less important with a wagon than with a carrier.

Here, as with most other methods of moving feed, *arrangement* of buildings and lots is more important than the type of equipment. Rates of [*Turn to page 70*



Slight slope near the feeding area made an ideal location for trench silos. One stop is made at the corncrib to add grain and supplement. Fence bunk can be extended if more space is needed

See more on Williamson's cattle-feeding system on page 70



Two iron bars, fitted in slots in the leading edge of giant silage scoop, are used to loosen silage. The bars are removed for loading

Scoop is loaded by bucking into the loose silage. Scoop carries up to 900 pounds corn silage, 800 pounds grass silage. A 5-inch surface layer of dirt practically eliminates top spoilage

Tractor-mounted scoop, loaded with silage, is backed out of the trench. Silage is dumped into wagon. Apron at entrance of trench gets away from mud problem during rainy season

Fix up your basement—

—for the young folks and for you, too!

By Betty Fisk

The Wayne Hendrickson family, Buffalo County Nebraska, combined their originality and old furniture to make their basement attractive. Table is made of wagon wheel. Floor has shuffleboard court

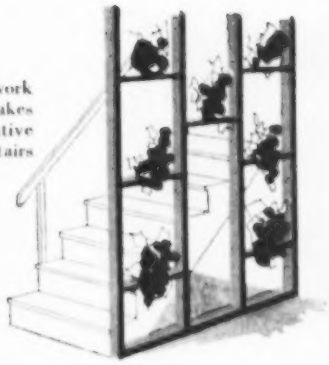
Photographs: Reynolds, Photography, Inc.; Fletcher, Hedrich-Blessing

What to do when you have a ceiling all covered with pipes! Paint the ceiling, pipes and all, the same color to minimize it. Clever wall treatment is a group of pictures mounted together on wall board

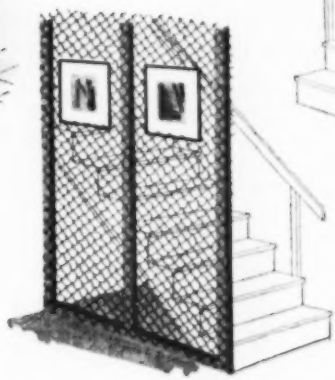
◀ **After a busy day** on the farm, the Virgil Hansens of Decatur, Nebraska, find complete relaxation in their recreation room with friends. Old furniture was painted and covered to make it more comfortable and attractive

Pipes or supports that are very necessary but unsightly can be put to work by building a plant stand or seat around them

◀ **The Hendricksons'** trick for hiding pipes! Enclose them with boards and put shelves between



Easy-to-build latticework with place for plants makes partition and is decorative way to handle those stairs



Another idea to make a stair wall: frame chicken wire and hang pictures on it to give decorative touch

Drawings: Parker Heath

Now's the time of year to really enjoy a basement recreation room. It's the perfect room for the 4-H'ers to meet in and work on their projects. But just as ideal for the grown-ups, or an evening of family fun. It doesn't take a lot of money—but it does take planning.

First, make a plan on paper and list what furniture you have. Some of those pieces relegated to the attic or barn can be repaired, painted, and put to use. Then work out a light, gay color scheme. You'll want plenty of seating area, table and chairs for sitting down to a snack, bookshelves, a place for games, and a spot for television, radio, or the old phonograph.

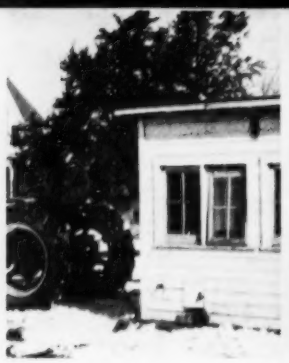
Try some of the ideas from farm homes on these pages, combine them with your own, and you'll find many hours of fun on the farm this winter for the whole family.

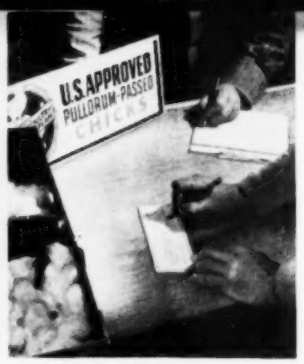
Turn to page 148 for how to fix up basement walls

Before ▲ After ▼

Full of ideas and on a budget is the recreation room done by one of our editors, Dick Hanson, and his wife. Furnace and pipes are screened off with blind. Walls are white, red, and green. Sports equipment is mounted on perforated hardboard

It's family-fun evening for the Glen Fultz family in the recreation room of their farm home near Rantoul, Illinois. Fireplace, game table, and kitchenette make it convenient, comfortable





Here are things to do before the chicks arrive

Move brooder to clean range to control worms. Place near farmhouse. Snow makes moving easier

Clean up several weeks before chicks arrive. Disinfect with hot lye water, using rubber gloves

Spray floor and lower walls with an insecticide to kill parasites and disease. Disinfect brooding equipment. Start brooder several days before chicks arrive

Buy chicks of known quality and laying potential from a reputable hatchery. They may cost a little more but will more than pay you back. Buy pullorum-free chicks

Never overcrowd! Start with ample feeder, waterer, and brooder space—increase as chicks grow older

For more eggs later—

Start chicks right

By Earl Beery

High egg production starts long before the hen lays her first egg. The kind of chicks you buy and brooding care go a long way in determining later production.

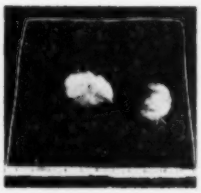
Allow each chick 7 square inches of brooder space—10 square inches for electric brooders. A 6-lamp infrared unit takes care of 400 to 500 chicks.

Start with 2 inches of dry litter—build up to 6 inches. Good ventilation helps keep litter dry. Allow 3 square feet of window space per 100 chicks until 4 weeks old—4 to 5 square feet at 12 weeks. Keep air circulating but prevent drafts from hitting birds. **END**

Photographs: Hufnagle

Place first feed on clean egg-case flaps—sprinkle cracked grain, grit over top. Paper prevents chicks from filling up on litter at early age.

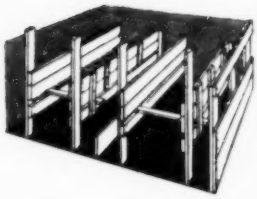
Guard keeps chicks confined to brooding area and prevents drafts. Start with temperature of 95 degrees, reduce 5 degrees per week.



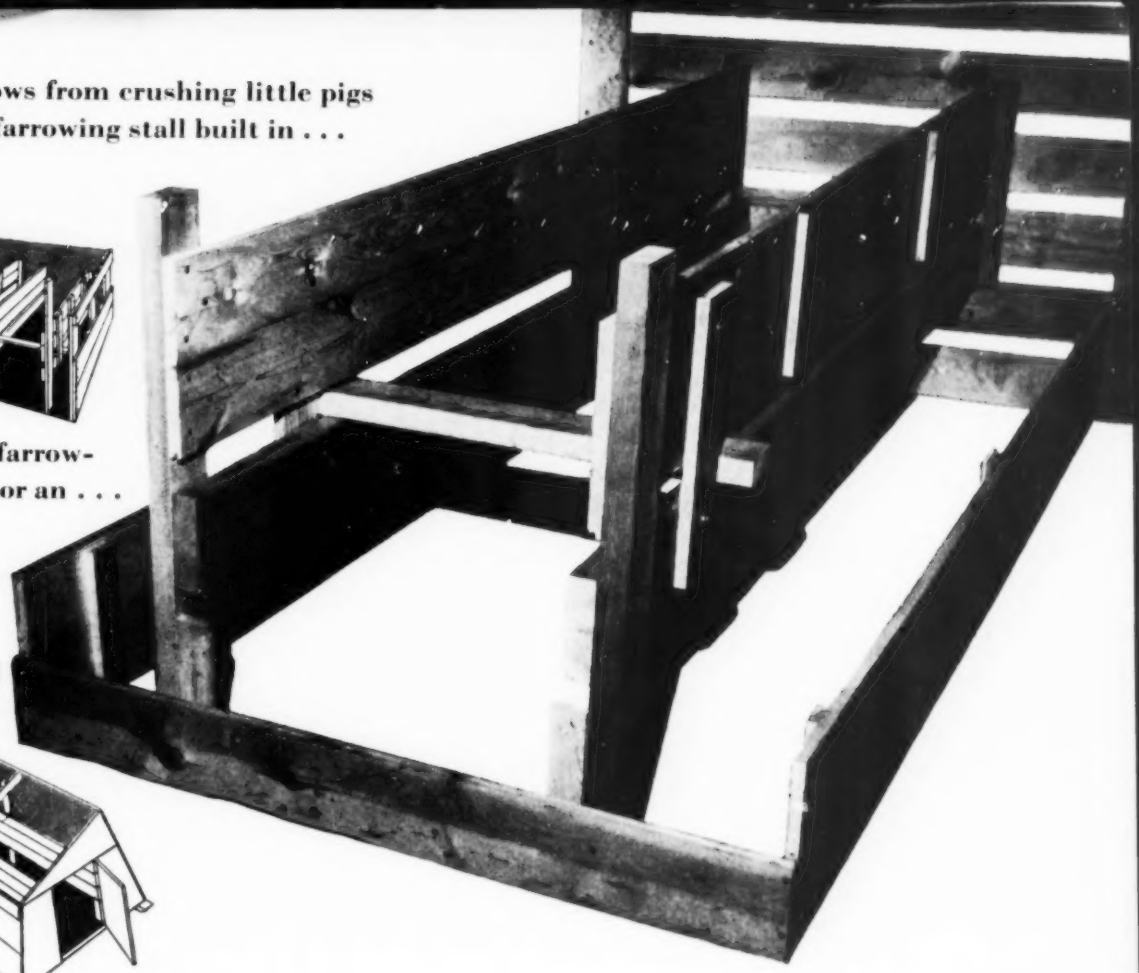
Allow ½-square-foot floor space per bird the first 6 weeks of age—then increase to 1 square foot.

Provide day-old chicks with 100 inches of feeder space and two 1-gallon waterers per 100 birds. Increase to 300 inches feeder space, two 3-gallon waterers at 12 weeks of age.

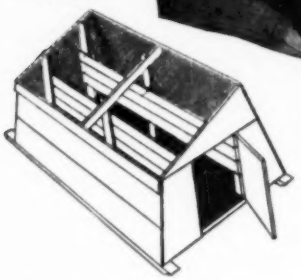
Prevent sows from crushing little pigs with this farrowing stall built in . . .



A central farrowing house or an . . .



Individual hoghouse



Basic stall is adaptable to central farrowing houses or individual hoghouses. Slots, brackets on wall, or pen partitions hold sides. The 2x4s at ends usually are extended to roof. Leave 12″ below sides for little pigs.

Space for sow is 2′ wide; space for pigs is 18″ wide on each side of stall. Length varies. Midwest plan No. 72668, available at Midwest state colleges for 30 cents, is 16-sow hoghouse with removable farrowing stalls. Plan of individual hoghouses with stall is available from Purdue University, East Lafayette, Indiana, for 15 cents.

How to build a

Farrowing stall

By Sherwood Searle

Hog raisers who have used farrowing stalls like those shown here are, almost to a man, sold on them. The stalls virtually *eliminate pig-crushing losses.* Dick and Bob Ellis, Dallas County, Iowa, are no exception. Here's why:

In 1951, using farrowing pens and good management, they lost an average of 2 pigs per litter. After they switched to stalls with heat lamps to attract pigs, crushing losses were reduced to *a total of 7 pigs* from 37 litters.

For more on farrowing stalls, order AEP-11 (Revised), Iowa State College, Ames; Bulletin 583, University of Kentucky, Lexington—cost, 10 cents to nonresidents. Or, buy plans from Michigan State College, East Lansing—25 cents; Colorado Agricultural and Mechanical College, Fort Collins—20 cents; University of Illinois, Urbana—15 cents. END

Stalls with adjustable side panels work later as creep for feeding for Lester Hunter and son, Boone County, Iowa. Sows are in stalls for a day or so after farrowing. For next four weeks, panels are swung over to provide safety zone for pigs and give sow more room. Users of regular stalls find they can transfer sow, pigs to conventional pen after several days in stalls.

Photographs: Benn, Nelson

Poor hay—what it is and how to supplement it

Short on *good* hay this winter? If so, here's how you can make better use of the roughage you've got. Poor hay, plus the right supplement, *will* keep cattle healthy and producing

By Dick Hanson
With technical assistance from Professor G. Bohstedt, University of Wisconsin

Many farmers feed *some* fairly poor roughage along with their good hay every year. But this year, because of dry weather last summer, poor roughage may be the *only* roughage available. If this is the case on your farm, you're up against two big problems—how to keep cattle *healthy* and *producing*.

Poor hay, plus supplement, will keep cattle in good health and producing. But how poor is "poor"? On the opposite page, three grades of three different kinds of hay are shown. If your hay doesn't fit into Grades 1 or 2, it probably lacks the necessary protein, phosphorus, and carotene (vitamin A) to keep cattle healthy and producing. *Grade 3 hay is generally considered "poor."*

Of course, other low-quality roughages such as straw, dry-corn stover, oats hulls, and corncobs lack necessary nutrients, too, and must be fed with a supplement to make up for this lack.

Feeding Grade 3 hay for a period of time can result in cattle health problems. And if health is poor, naturally production will be, too. Lack of enough protein affects growth, reproduction, fattening, and milk production. Lack of phosphorus results in weak bones and general unthriftiness. Shortage of carotene, or vitamin A, in the ration shows up as night blindness, results in staggering gait, respiratory troubles, and poor bone development. So you see, feeding poor hay is something of a health and production problem unless you feed the right supplement along with it.

How much and what kind of supplement should you use to make up for the lack of feeding value in poor roughage? Fortunately, we now have some of the answers to this problem. A great deal of testing in the past few years with low-quality roughages *plus* different types of supplements have made it possible for cattlemen to feed roughages we used to consider waste products. Even though most of the experimenting has been with beef, some of the results can be applied to dairy cattle, also.

Here's one supplement—modified Purdue Supplement A—which has been used successfully along [*Turn to page 166*

Alfalfa

Alfalfa is probably the most common of all our hay crops. The samples on the opposite page show the three top grades. No. 1 alfalfa is almost too rich to feed in large quantities, is used mostly for alfalfa meal.

No. 2 alfalfa has adequate nutrient content, No. 3 alfalfa needs supplementing.

Timothy

Very little of the timothy hay harvested each year will fall in the No. 1 class because it must be cut early, is hard to cure.

No. 2 timothy from well-fertilized land is a satisfactory hay for both beef and dairy cattle. No. 3 timothy needs addition of protein, vitamin A in ration.

Mixture

No. 1 Mixture of red clover and timothy is difficult to get because the clover loses its color rapidly after cutting.

No. 2 grade red clover-timothy usually requires addition of more protein than No. 2 grade alfalfa. No. 3-grade mixture is lacking in all nutrients, must be supplemented.

Photographs: Grant Heilman. Hay samples courtesy U.S.D.A.

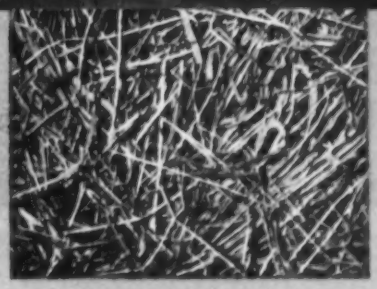
Grade 1 alfalfa contains 19.4 mg. per lb. carotene (vitamin A), 18 percent protein, .33 percent phosphorus, 24 percent fiber

Grade 2 alfalfa is made up of 9 mg. per lb. of carotene, 15 percent protein, .24 percent phosphorus, and 28 percent fiber

Grade 3 alfalfa is made up of 3.2 mg. per lb. of carotene, 14 percent protein, .18 percent phosphorus, and 30 percent fiber

Grade 1 timothy is made up of 9.2 mg. per lb. of carotene, 10 percent protein, .21 percent phosphorus, and 27 percent fiber

Grade 2 timothy is made up of 4.2 mg. per lb. of carotene, 7 percent protein, .20 percent phosphorus, and 29 percent fiber



Grade 3 timothy is made up of 2.5 mg. per lb. of carotene, 6 percent protein, .15 percent phosphorus, and 30 percent fiber

Grade 1 mixture is made up of 10.1 mg. per lb. carotene, 10 percent protein, .22 percent phosphorus, and 26 percent fiber

Grade 2 mixture is made up of 5.2 mg. per lb. carotene, 9 percent protein, .20 percent phosphorus, and 29 percent fiber

Grade 3 mixture is made up of 2.8 mg. per lb. carotene, 8 percent protein, .15 percent phosphorus, and 32 percent fiber

Handsome, hard-wearing clay tile fits right into farm ways—it's immune to mud and moisture, able to take the abuse of heavy boots and buckets. The deep sink and sturdy, steel wall cabinets belong here, too

Here's how the arrangement saves steps

In food handling

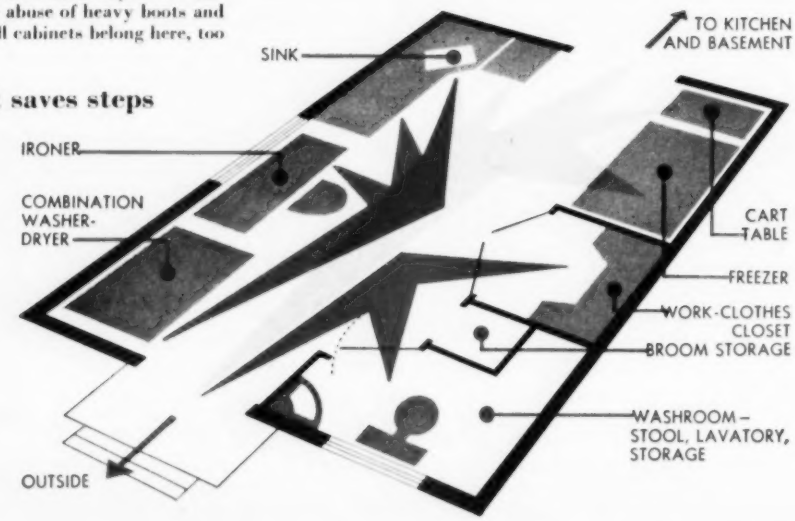
Eggs, milk, poultry, vegetables, and fruits can all be taken care of at sink and work counter before going to the freezer, kitchen, or basement

Using washroom

Busy outdoor workers have the convenience of a warm washroom just inside the back door. Wraps and boots are handy in adjoining closet

Doing family wash

Clothes hamper is near door and also close to sink for soaking, spotting. Washer-dryer, ironer, counter space (for folding) are all side by side



Photographs: Hopkins. Drawing: Zeller

Successful Farming planned it, this farm family built it—

You'll want it!

This is an all-round farm utility room that keeps the mess out of your house—keeps *you* out of the cellar

By Maurine Harris

Guess you couldn't find a room more useful than this one. It isn't a kitchen, though it relieves the kitchen of its messiest jobs—like washing garden vegetables, peeling fruit for canning, and dressing chickens.

This room has what you usually find in a farm basement—washing machine, freezer, shelves for canned goods and fruit jars. But it certainly *beats* a basement! Handy to the kitchen (no stairs to climb). Light, bright, and full of fresh air. Warm in winter, dry in summer—comfortable to be in.

The trend in farm homes today is to shorten working hours, make more time for *living*.

That's why the Howard Wagners of Lancaster County, Pennsylvania, decided to build this addition to their 100-year-old farmhouse. They told us what they wanted to use the room for, and we helped them plan it.

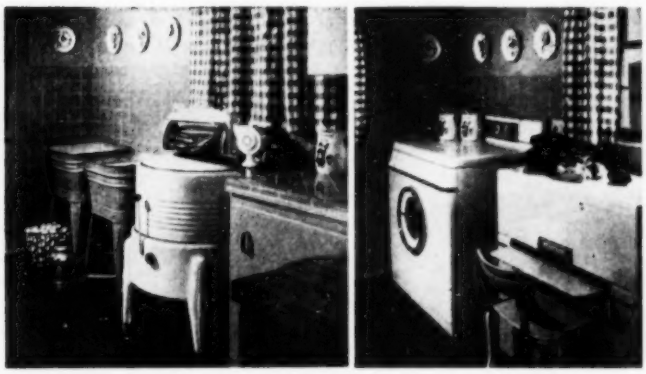
We started with the plumbing. It was good sense to put the washroom next to the back entrance—for convenience and to prevent tracking through the room. A corner lavatory was chosen to save space.

The sink was placed near the kitchen so vegetables for the freezer can be blanched on the range just through the doorway. Because it will be used for cleaning chickens, hand laundering, and filling pails, the *deep* sink with a *high* faucet is ideal.

Plenty of storage cabinets and counter space were built around the sink. The maple block is chop-proof; the clay-tile top and back-splash can withstand years of suds and moisture. [*Turn to page 108*

Men's washroom is near outdoor entrance—cuts traffic through the house, simplifies cleaning the house and bathroom

Freezer, though large, is just a few steps from the kitchen. Cart is handy to both kitchen, workroom

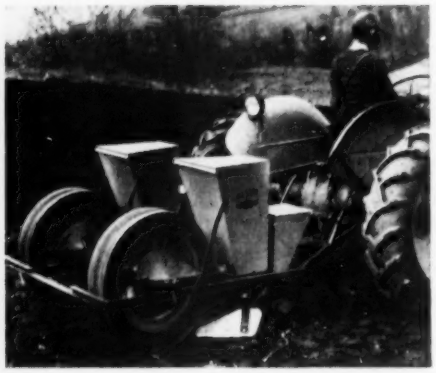


When room was built, the washer and 2 tubs occupied a big corner. Same space will accommodate ironer and washer-dryer combination. Original wiring, plumbing was done with change-over in mind

A daughter of the Wagners shows how the giant built-in hamper pulls out of base cabinet. Bin can be rolled out completely, put next to the washer. Slots provide front and side ventilation

Down machinery row

A sheller attachment turns Dearborn-Wood Brothers picker into picker-sheller. Made by Fleischer-Schmid Corporation of Columbus, Nebraska



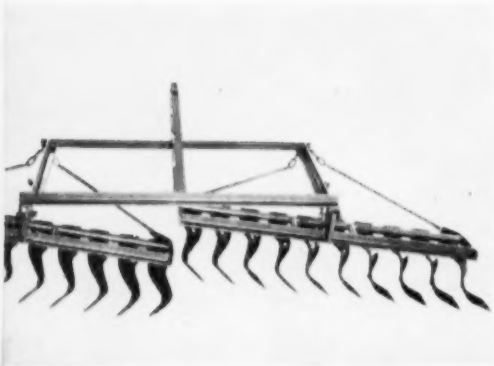
Corn planter for drilling or hilling has fertilizer wheel synchronized with seed drop, a 12-speed drive. Planter units are flexibly mounted. Sargent-Roundy Corporation, Randolph, Vermont

Quick-mount picker is a matter of driving in tractor, using funnel sockets and guides. Then fold jack stands and you're ready to go, says J. I. Case Company, Racine, Wisconsin

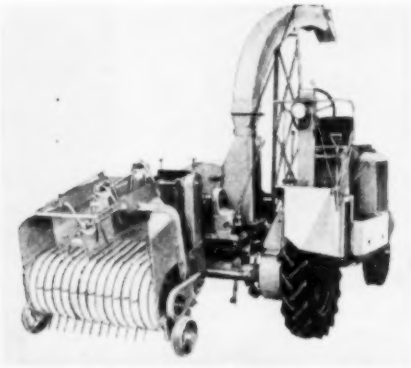
Stalk shredder, built by New Idea, Coldwater, Ohio, has adjustable center head to pulverize stalks between rows

Sow wheat between corn rows with 34-inch-wide tractor. Garden-All Tractor, Incorporated, Liberty, Indiana, says 8-hp unit will handle 10 to 14 acres a day with 1-row drill

Fertilizer spreader with reciprocating action is built by Century Engineering Corporation, Cedar Rapids, Iowa. Fertilizer openings can be closed off easily, row spacings changed without purchasing additional attachments



Blade-type harrow is said by Hester Plow Company, Jacksonville, Florida, to be easily and accurately adjusted for depth of cut. Double-acting, blades turn, pulverize soil



Forage harvesting unit, announced by Minneapolis-Moline Company, Minneapolis, Minnesota, is fourth in series of attachments for Uni-Tractor. Various headers handle hay, row crops

Wire winder for posthole digger is offered by Twin Draulic, Laurens, Iowa. Part at left, controlled from tractor, lets wire roll up on spool evenly

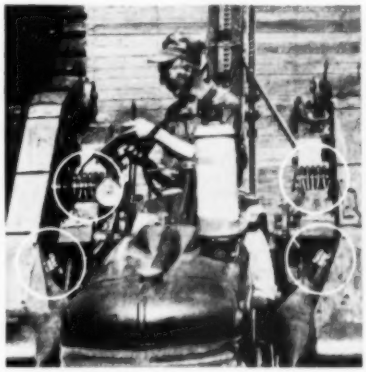
in 1954

When there's farm work to be done faster, easier—you look for a new machine. One shown below may just fit your job

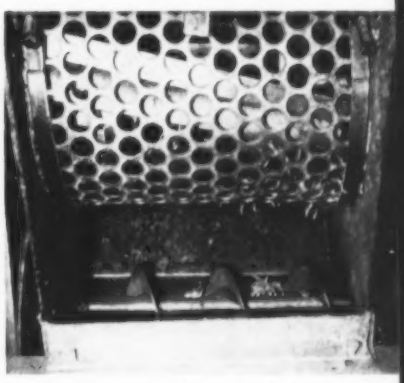
Self-propelled combine made by Allis-Chalmers in Milwaukee, Wisconsin, has rubber-faced cylinder bars and concaves, instant adjustment of cylinder speed from operator's seat, 30 settings in two forward-speed ranges, accessible WD engine. A 9-foot header is standard, 3-foot extension is available

Twin lens safety-utility light mounts on tractor as a tail light, is usable as white light with a red lens up, is implement tail light with cord pulled out. Kraschel Sales Company, Harlan, Iowa, makes this flexible unit

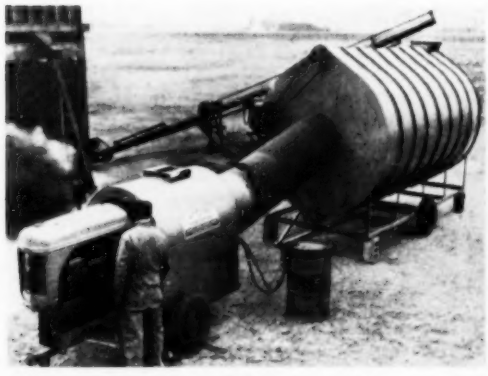
Bale stacker pulls behind, stacks bales in such manner that none lies flat. Third bale sounds buzzer so operator knows to pull trip rope. Made by the Melroe Manufacturing Company of Gwinner, North Dakota



Lubrication manifolds, says the Wiles Manufacturing and Supply Company of Hutchinson, Kansas, enable operator to grease bearings safely, surely, and quickly



Grain, hay granulator made by H. C. Davis Sons' Mill Machinery Company, Bonner Springs, Kansas, doesn't take much power, or clog



Laborsaving grain and corn dryer features top and bottom auger conveyers for loading and unloading bin. It's designed by American Crop Drying Equipment Company, Crystal Lake, Illinois, so all grain is uniformly dried

Replacement diesel power for hay balers is available through Sheppard Diesels, Hanover, Pennsylvania. It is 20 hp, uses less than 1 gallon of oil an hour

Supplemental elevator, made by Industrial Engineering and Manufacturing Company, Brimfield, Indiana, is tractor-hoisted

A Successful Farming report on agricultural policy

Here is the newest, most complete picture of farm sentiment thus far assembled—as reported by presidents of our three general farm organizations. These are their annual reports to agriculture, prepared for release through the pages of *Successful Farming*

James G. Patton, president of the National Farmers Union, calls for parity of living for farm families

The sharp decline in agricultural income in the past year has given all of us a great deal of concern. The tragedies which are being bitterly experienced by cattle producers and feeders *only highlight* the financial problems of family farmers who produce crops and other livestock.

Farmers Union is faced with a grave responsibility and, at the same time, a most unusual opportunity to help the American farmer and rancher to overcome his present economic inequality.

Some 1953 accomplishments. Farmers Union won important battles in this last session of Congress:

- Agricultural appropriations were larger than those asked for by the Eisenhower administration.
- The Agricultural Conservation Program was saved.
- Decisive policy directives were issued by both the Senate and House Appropriations Committees in their appropriations reports—which covered *administration* of the farmer-elected committees, as well as *definite legislative instruction* as to what practices the A.C.P. program should contain.
- The renewed International Wheat Agreement was ratified *unanimously* by the Senate.
- Continuation and expansion of the Federal Crop Insurance program were assured.
- A start was made—through passage of the Wheat-for-Pakistan and the International Farmers Relief bills—on a broad approach to using abundant United States farm production to back up foreign policy.

Farmers Union lost a battle when the Congress passed the Farm Credit Reorganization Bill.

The wonderful cooperation of state presidents and other officials, the fine work done by busloads of Farmers Union Washington Campaigners, and by busloads of farmers from Michigan, Ohio, Pennsylvania, Illinois, Indiana, and other states, gave us the best legislative job we have yet performed.

We are encouraged by the great interest in Farmers Union now being evidenced by many farm people who have never been Farmers Union members. We are extending our organization work to provide services to these areas of the nation needing and wanting it.

How we view Congress and the administration. Farmers had been impressed in the presidential campaign by the favorable expressions from both candidates on the farm programs. President Eisenhower's "Golden [*Turn to page 156*

Herschel D. Newsom, master of the National Grange, says Congress must work for added farm markets

A beginning-of-the-year inventory reveals that agriculture is still in the vise of the price-cost squeeze. Production costs are largely frozen, and farm prices are down.

The farmer has been in various stages of want for over 30 years. Three wars and their immediate aftermath are the *only* exceptions.

We might ask why war—and war alone—has been the *only* stimulus that has resulted in farm prosperity. This is truly ironical. It strikes at a basic dilemma that caused Congress, the administration, and farm organizations to dedicate 1953 as a year of deep and serious study.

What's at stake in 1954. The studies have been made. Our challenge now is to make wise use of them. With vast political forces at work, this will not be easy.

Those of us who make our living on the land are "the talk of the town." Our business is everybody's business:

- The nation depends upon farmers for food, fiber, and many building materials.
- Rural buying power is the weather vane that points to prosperity or depression.
- Farmers themselves wonder if depression is again just around the corner.
- Politicians view with alarm the ballot-box dynamite connected with the trend of things.
- Whether a billion of the world's people swing to communism or to the free community of nations depends at least in part upon our global food policy.

Too much is at stake to trade political expediency for the wisdom of statesmanship.

The farmer's problem stems largely from the fact that he is producing *more* of a *variety* of products than his American customers are consuming at break-even prices. This means that we are faced with two alternatives: (1) Either we must cut back production, or (2) expand outlets. To my way of thinking, there is only one sound, long-range answer to this dilemma—*additional markets*.

This much seems sure: The present farm program must be streamlined and improved in 1954. Parts of it are good, and should be kept. It is based largely on supporting farm prices by controlling production and removing supplies from the market. Supplies are removed from the market through nonrecourse loans and direct purchases on the part of Uncle Sam.

When governmental supplies spiral to dangerously high levels, controls designed to [*Turn to page 158*

Allan B. Kline, president of the American Farm Bureau Federation, says aim is high net income

It is a privilege to write this for *Successful Farming*, discussing in general terms 1953 and 1954 in Farm Bureau—and in addition, appraising in general terms, the administration, which is still called a "new administration," and the things which are at stake in 1954.

The work of any organization must be judged on the basis of what that organization's objectives are. The American Farm Bureau Federation seeks to be an honest and straightforward national, nongovernmental voice for agriculture.

We have bona fide organizations in each of the 48 states and in Puerto Rico. Our paid-up membership last year was 1,591,777 families.

There is a philosophy in Farm Bureau which is worthy of note. Farm movements have been considered "protest" movements by many competent observers through the years. The Farm Bureau is *not* primarily a protest movement.

Where we stand on farm programs. Farm Bureau's objective is to represent farmers—and develop policies affecting them as farmers and as citizens. Our over-all objectives are:

- We seek high net income for farmers.
- We want to promote progressive rural communities.
- We wish to develop better means of rural living.
- We seek to create national and international conditions conducive to these objectives.
- One of the major efforts during the past year was to get discussion and understanding on some major issues.

Let us consider this matter of *net income*. Much farm-policy discussion would suggest that it is all a matter of *price*. Price, of course, is very important. On the other hand, net income is arrived at by a simple process—it is gross income minus expenses. That is what you live on. Gross income is the units produced times the price. So:

1. Obviously there is no substitute for markets. If things cannot be sold, then prices will not do much good.
2. There is no substitute for efficient production. This is where the expenses which have to be subtracted come in.
3. There is no substitute for research and education. These are not only the basis for present efficiency, but the hope for future progress.

At a most important conference, called by the American Farm Bureau Federation last May, outstanding authorities from all over the nation agreed that [*Turn to page 160*

For winter-weary wardrobes—

Quick, sew-easy Fashions

By Jo Ann Breckenridge

Jacket—costume suit or wrap

Shrug your shoulders into this little jacket, gray fleece edged with black braid. Makes a costume suit out of a favorite skirt, or wear as a wrap for chilly summer evenings. **6281**

Cotton skirt—now through summer

This cotton tweed skirt with scalloped peg pockets is a washable, wearable, easy-to-sew fashion. Top with sweaters now, sleeveless blouse later. **6453**

Changeable blouse—dressy or tailored

Sew-easy blouse we've made in baby-checked gingham with solid collar and cuffs. For parties try pique, eyelet embroidered for the body, with plain trim. **6261**

Photographs: Hopkins

Even the best planned wardrobe has its winter-weary days. Here are three quick perk-ups. In just a jiffy—a day, or maybe two—you can add these fashions, bring your wardrobe brightly through the in-betweener season. They're so easy to sew that beginners can't fail, yet style-wise enough to please the veteran seamstress, too. Choose the newer versatile fabrics—wearable for spring, yet washable for cool summer comfort. You'll want to make more than one version of each. All three are adaptable for tailored or dressy fabric and trims.

More about these Advance Patterns on page 94

Your storage chest can masquerade as a window seat and double its usefulness. Attach the pleated skirt directly to the box and foam pad and cover to the lid

A bedside or lamp table for the old-fashioned room. Cut and hem a large circle of fabric. Place it on a round table under a piece of glass cut to fit the top

Even your flowerpot or lampshade can get a camouflage job. Both covers are held in place by an elastic band run through a heading at top of the ruffle

Find new life for old piano seats. The long bench has been cut lower and tailored corduroy makes it just right for viewing TV. A foam-rubber pad and gay chintz cover turn the stool into revolving vanity bench

An old bed goes modern with the simplest type of a slipcover over the headboard. Footboard was cut off. The chair moved up from the kitchen with the help of a little padding and print

Drawings: Richardson

Three cushions, salvaged when the old sofa was thrown away, were the inspiration for this slipcovered bench. Base is a door cut to size and covered with plywood. Legs are rubber-capped pipes fitted in flanges

Slipcover it!

By Claire Miller

What better way could there be to make use of old, unattractive furniture, lampshades, or accessories than to hide the bad features with a bright piece of fabric? Match the cover with other items in the room—and objects you can't afford to replace at the moment will blend right in with your newer furnishings.

Slipcovers have long been the stand-by for covering new or old upholstered furniture, but their possibilities in covering *other* useful, everyday items have been overlooked. Foam rubber for padding, glass cut for a dressing-table top to protect the fabric underneath, easy-to-sew plastics, quilted materials, and felt, which eliminates hems, all help take the limitations off slipcovers. END

Tell your friends to—

Stop in for dessert

—it's no trouble with a mix

A dessert-coffee is an easy way to entertain that's gaining new popularity. An afternoon club meeting, an evening of cards or television becomes even more enjoyable when steaming coffee and a tempting dessert is served. It's no trouble for you—*if you let a mix do most of the work.* Just follow package directions, add garnishes or fancy touches for a quick and delicious dessert. It's the relaxed kind of entertaining that's fun for everyone.

All the elegant desserts on the opposite page are made from mixes. The three-decker cake is a marbled beauty from white- and chocolate-cake mixes. The pie is banana cream—the crust and the filling are both from mixes. Garnish it with mounds of whipped cream, banana slices, and cherries. For the upside-down cake, just open a package of spice-cake mix. It's extra good with melting butterscotch topping, with nuts, pineapple, and cherries. When you invite the ladies in, dainty petal biscuits and petits fours will win rave notices. They look fancy but they are easy to make with mixes. That's gingerbread at the top of the page—it's from a mix, too. Decorate the top with whipped cream and peach slices.

Remember that these packaged mixes are prepared according to painstakingly balanced formulas, so follow the manufacturers' directions carefully. You'll have results you can be proud of every time.

Top-hat Marble Cake

- 1 package white-cake mix
- 1 package chocolate-cake mix
- 3 egg whites
- 2¼ cups sugar
- ½ teaspoon cream of tartar
- ½ cup cold water
- Dash of salt
- 1 teaspoon vanilla
- Semisweet chocolate pieces

Prepare cake mixes according to package directions. Spoon chocolate and white batter alternately into three 9x1½-inch paper-lined round cake pans to give a marbled effect. (If you have only two pans, keep ⅓ batter in refrigerator until pan is empty.) Bake at 350° (moderate) for 30 minutes or until done. Let stand for 10 minutes. Turn out; cool. Frost with *7-minute Frosting:* Combine egg whites, sugar, cream of tartar, cold water, and salt. Beat well; place over hot water, beating constantly, until mixture stands in peaks. Turn into bowl; add vanilla. Beat until mixture stands in stiff peaks. Decorate with chocolate pieces.

More recipes on page 86

By Elizabeth Page

There's the festive kind of food that spells a party. Too much work? Not on your life—it just couldn't be easier.

A box of mix is the magic that makes a baking job no job at all. Merely add a few fancy touches and get ready for compliments.

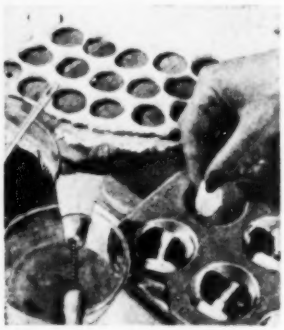
Here's how to make Petits Fours

1. Cut cake into small diamond shapes which measure about two inches from tip to tip, using toothpicks as the cutting guides

2. Line cakes in rows on cooling rack. Place on cooky sheet to catch drip. Then spoon the frosting carefully over the cakes

3. Decorate with flowers and leaves made from thick confectioners'-sugar frosting. Or, use nuts or buy candy decorations

Petal Biscuits



Place rounds of dough against the sides of tiny muffin cups; stand a half round in center. Add spoonful of cherry preserves

Photographs: Stanley, Snook, Photography, Inc.

Jane tried new soaps, detergents, too,
And so did neighbor Jean.
When all were tried, they turned to Tide
To get clothes dazzling clean!

Sooner or later almost everyone turns to *Tide*

— FOR CLEAN, CLEAN CLOTHES!

No washday soap-no other detergent known—

NOTHING ELSE WILL WASH AS CLEAN AS *TIDE* - yet is so mild!

NOTHING ELSE BEATS *Tide* FOR GETTING CLOTHES CLEAN!

Tests against every known kind of soap and detergent *prove* this over and over again! Until Tide was invented, it wasn't *possible* to get your family wash so clean. And today's Tide has even *more* cleaning power. *More* mildness, too. No wonder Tide outsells any other washing product by *millions* of boxes!

NOTHING ELSE BEATS *Tide* FOR GETTING CLOTHES WHITE!

Never before Tide, was it possible to get your wash so *white*. And today's Tide has an even *greater* whitening power that gets clothes even more *dazzling* white. It's truly amazing! Get Tide today – there's *nothing* like it! (Tide is made by an exclusive *patented* formula.)

RECOMMENDED FAVORITE FOR AUTOMATIC WASHERS!

Tide is recommended by 25 leading manufacturers for their automatic washers . . . because they want the machine you buy to perform its *best*. No matter which of these automatics *you* own, remember *this!* No washday soap, no other detergent known – *nothing* else will wash as clean as Tide, yet is so mild!

More women by far use TIDE than any other washing product in the world.

Guaranteed by Good Housekeeping

Cheese Sticks (Makes about 6 dozen)

1 cup sifted flour
1 teaspoon baking powder
½ teaspoon salt
Dash of cayenne
¼ teaspoon paprika
1 cup grated sharp process cheese
1 egg, beaten
2 tablespoons milk

Sift together dry ingredients. Stir in cheese. Add egg and milk. Mix to form a stiff dough. Roll out ⅛ inch thick. Cut into strips 4x1¼ inches. Bake on greased cooky sheet at 450° (hot) for 5 minutes.

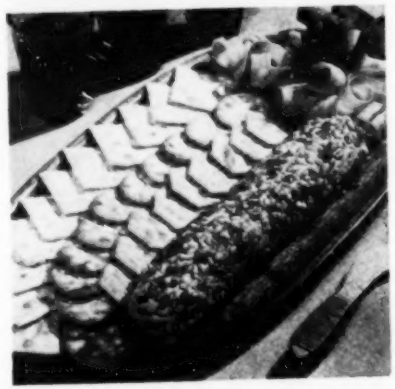
—*Miss Bertha Rohrich, Nebraska*

Spicy Sandwich Spread
(Makes ¾ cup filling)

⅔ cup liverwurst
2 tablespoons chopped onion
2 teaspoons prepared mustard
1 tablespoon lemon juice
2 teaspoons finely chopped parsley
Dash of salt
Dash of pepper
1 tablespoon mayonnaise

Mix ingredients well; spread on bread or crackers.

—*Mrs. L. W. Foubert, Iowa*



Tasty Cheese Snack

¼ cup blue cheese spread
¼ cup sharp cheese spread
1 3-ounce package cream cheese
½ clove garlic, minced
½ teaspoon Worcestershire sauce
¼ cup chopped pecans

Have all ingredients at room temperature. Combine cheeses, garlic, and Worcestershire sauce; beat until light and fluffy. Chill until firm enough to shape in a roll about 1½ inches in diameter. Roll in chopped pecans. Serve with crackers. Or, omit pecans and serve without chilling with potato chips.

—*Mrs. Arnet Davis, Indiana*

Breakfast breads

Quick Coffee Cake
(Makes 6 to 8 servings)

2 cups sifted flour
1 tablespoon baking powder
1 teaspoon salt
½ cup sugar
⅓ cup shortening
1 egg, well beaten
⅔ cup milk
⅔ cup brown sugar
¾ teaspoon cinnamon
2 teaspoons flour
2 tablespoons shortening

Sift 2 cups flour, baking powder, salt, and sugar together. Cut in shortening to resemble coarse crumbs. Combine egg and milk. Add to flour mixture; stir only to mix. Spread in greased 8x8x2-inch pan. Combine brown sugar, cinnamon, 2 teaspoons flour, and shortening. Spread over batter in pan. Bake at 350° (moderate) for 45 minutes. Serve warm.

—*Mrs. Lee Kemmerer, Minnesota*

Date-filled Coffee Cake
(Makes 6 to 8 servings)

⅓ cup shortening
½ cup sugar
½ teaspoon vanilla
1 egg
1¼ cups sifted flour
1½ teaspoons baking powder
½ teaspoon salt
½ cup milk
⅓ cup brown sugar
1 tablespoon flour
1 teaspoon cinnamon
¼ cup melted butter
¼ cup chopped walnuts
¼ cup chopped dates

Cream shortening, ½ cup sugar, and vanilla. Add egg and beat well. Sift together flour, baking powder, and salt. Add alternately with milk to creamed mixture. Fold in Date Mixture. Pour batter into an 8x8x2-inch square pan. Bake at 350° (moderate) for 45 minutes. *Date Mixture:* Combine brown sugar, flour, cinnamon, melted butter, nuts, and dates. Mix until well blended.

—*Mrs. L. W. Foubert, Iowa*

Honey-Nut Bran Muffins
(Makes 12 muffins)

- ¼ cup shortening
- ½ cup honey
- 1 egg
- 1 cup whole bran
- ¾ cup water
- ½ cup finely chopped walnuts
- 1¾ cups sifted flour
- ⅓ cup nonfat dry-milk solids
- 2 teaspoons baking powder
- ½ teaspoon salt
- ¼ teaspoon soda

Cream shortening and honey; add egg and beat well. Stir in whole bran, water, and nuts. Sift dry ingredients; add to first mixture and stir until flour is just moistened. Fill greased muffin tins ⅔ full. Bake at 400° (hot) for 25 to 30 minutes. Serve warm for a wonderful breakfast treat.

—*Mrs. A. D. Trochinski, Minnesota*

Orange Coffee Ring
(Makes 6 to 8 servings)

- 1½ cups sifted flour
- 2 teaspoons baking powder
- ½ teaspoon salt
- ¾ cup sugar
- ¼ cup shortening
- 1 egg
- ¼ cup milk
- ¼ cup orange juice
- Confectioners'-sugar Icing
- Grated orange peel
- Chopped walnuts

Sift together flour, baking powder, and salt. Cream sugar and shortening. Add egg and beat well. Stir in milk; add orange juice gradually. Add sifted dry ingredients. Stir only to blend. Pour in bottom of greased 8-inch ring mold. Bake at 400° (hot) for 25 minutes. Let cool 10 minutes. Unmold and ice with *Confectioners'-sugar Icing:* Mix together 1 cup sifted confectioners' sugar and 1 to 2 tablespoons milk or cream. Sprinkle with grated orange peel and chopped nuts. Cut into big wedges to serve. It's wonderful with tall glasses of milk.

—*Mrs. L. W. Foubert, Iowa*

Hospitality snacks

When it's snack time after an evening at home, try these. They're grand for casual entertaining, too

Cottage-cheese Dip (Makes 2 cups)

- 2 cups cottage cheese
- 3 tablespoons milk
- ½ teaspoon poppy seed
- ¼ teaspoon garlic salt
- ¼ teaspoon celery salt
- ⅛ teaspoon salt
- Few grains pepper
- ½ teaspoon paprika
- ½ teaspoon sugar
- 1½ tablespoons lemon juice

Beat all ingredients together with electric mixer or rotary beater until fluffy. Chill for at least 2 hours. Serve as a dip for potato chips, or with assorted crackers.

—*Mrs. A. D. Trochinski, Minnesota*

Popcorn and Peanuts

- 1 cup sugar
- 1 cup light molasses
- ⅓ cup water
- 1 teaspoon vinegar
- ¼ teaspoon soda
- 7 cups popped corn
- 2 cups Virginia peanuts

Combine sugar, molasses, water, and vinegar in heavy saucepan. Cook to very hard-ball stage (260°). Remove from heat; add soda. Stir well. Mix together popcorn and peanuts; pour syrup over. Toss. Spread on greased surface to cool. Break in chunks to serve.

One Million Dollars!

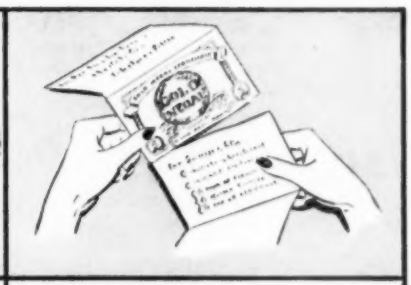
In Gold Medal Certificates for Churches, Clubs, Charities

ANNOUNCING BETTY CROCKER'S FRIENDSHIP FUND

"Isn't there something your community needs—like swings for the playground or equipment for the church kitchen? I'm sure there is. And we of General Mills are making this Friendship Fund offer to help you *now*. All your group does is collect these Gold Medal Certificates that come in specially marked sacks. Isn't this an easy, satisfying way to help *your* community?"

Betty Crocker
OF GENERAL MILLS

Look for the specially marked sacks of Gold Medal Flour with valuable Gold Medal Certificates inside. These certificates are redeemable by your church, club or charity for real money.



Gold Medal Certificates and redemption instructions are attached to the recipe folders inside specially marked Gold Medal sacks. Cash values increase with sack-sizes. Save them all for your group.

***General Mills will redeem** these certificates from bona-fide organizations. Examples: any church or church group, federated women's clubs or PTA, veteran organizations or scout groups, any national or community drive and all charities. *And no group is too small!*

Get your collection group started! Have every member ask friends and neighbors to save Gold Medal Certificates for your group. Appoint a chairman to handle redemptions. Complete mail-in instructions come with certificates in Friendship Fund sacks of Gold Medal.

IT'S AMERICA'S FAVORITE!
More sacks sold than the next 5 brands combined!

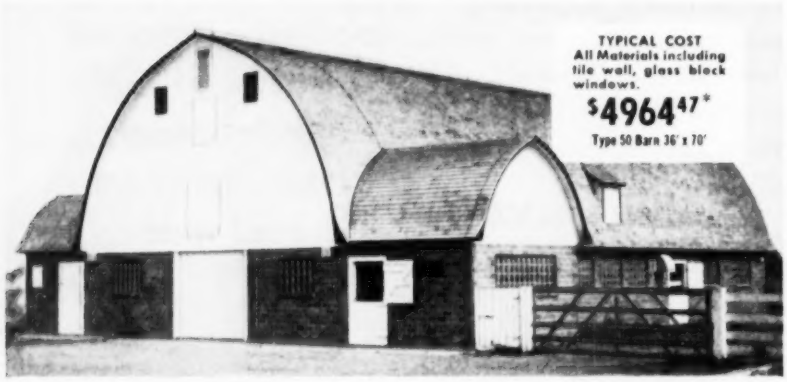
Gold Medal Flour

Answers to the $64.00 Question

How Much?

WHAT DOES IT COST to build with Rilco glued laminated wood rafters? "I wanted a good looking barn because I'm on the highway," says Ray Krebsbach, Stacyville, Iowa, "yet I wanted to keep costs down. Rilco did the job for me on both counts!"

Rilco construction means big savings because rafters come completely fabricated, ready for fast erection. No sawing, fitting, measuring, nailing. Engineered connections make your barn rock-solid. Remember, price is determined by quality of materials, cost of materials, labor, maintenance. Compare! You'll see *today's best buy* is Rilco!



Economical?.. you bet it is!

"Rilco helped me save money," says Victor E. Shafer, Route 1, Menomonie, Wisconsin. "Rilco Rafters are economical, easy to erect. They give me plenty of post-free space for my machinery. Strong? My Rilco Utility Building will stand longer than I need it."

Rilco Utility Buildings go up in hours, provide more space at lower cost than any other permanent farm building. See your lumber dealer. Get the facts on Rilco now.

**Price based on first quality materials, and will vary according to locality.*

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FREE . . . a big new barn book, loaded with money-saving tips. The planning guide you've been looking for. Helps you build the right barn in the right place. Mail coupon now.

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"Poor" cows make you work for nothing

If you've got cows producing only 175-225 pounds of butterfat a year, you're earning only 21 cents an hour.

Dairy Herd Improvement Association records show that cows giving 425-475 pounds of butterfat a year pay you back $2.16 for each hour's work. Cows producing 575 pounds of butterfat yearly pay you $3.83 hourly.

Even if you aren't short of hay, it will pay you to get rid of your losers. At the University of Missouri, one cow producing 400 pounds of butterfat a year made more money than four cows producing only 200 pounds of butterfat.

At present prices, the average cow must produce the first 15 pounds of milk to pay for the feed she eats, says E. T. Itschner, of the Missouri Dairy Department. Anything over 15 pounds of milk produced will go to pay for other expenses—and profit. Any cows not paying you a good hourly rate should be culled.

While production is the most important point in deciding what cows to cull, these factors are important, too. Now is a good time to get rid of old cows and slow breeders. Also, clean up your herd from brucellosis, and sell all reactors.

Since heifers can be carried for about half the feed cost of cows, you may be ahead to hold back the best heifers for a quick build-up of herd numbers.

Suit hybrids to fertility, planting rate

You'll do well to look around for new hybrids that have been bred to yield high under the most modern corn-growing conditions.

With the increase in fertilizer used, hybrids must be bred to turn this extra plant food into more corn. And with thicker planting, hybrids must be able to yield well under crowded conditions.

Corn breeders have recently found a wide difference in inbreds' abilities to produce under thick planting and high-fertility conditions. When you buy hybrid seed for 1954 planting, ask for hybrids that have been bred to meet all of these conditions.

NEW

safety insignia

for careful drivers only!

Watch for this new bumper emblem on cars of State Farm Mutual members everywhere. It means—"*Here's a careful driver, soundly insured.*" State Farm aims to insure careful drivers *only*.

State Farm Members:

This handsome new emblem is made of "*Scotchlite*"—the new material that glows brightly under headlight beams. Takes 10 seconds to apply, adheres firmly to your bumper. Your emblem stands on guard while you park. It can provide life-saving emergency protection if your tail-light fails. See your friendly State Farm agent for your Scotchlite safety emblem now. Remember, it's the mark of a careful driver. So *display it proudly.*

Can you qualify? If so, you can save up to 40% on auto insurance

About 80 percent of all accidents happen to about 15 percent of all motorists. The reckless few boost the cost of ordinary auto insurance.

But an auto insurance company that deliberately avoids the "Careless 15" can afford to give the "Careful 85" much lower rates. That's exactly what State Farm Mutual does. It seeks to insure *only careful drivers.* That's why State Farm can give such excellent protection and service at rock-bottom cost.

If you can measure up to State Farm Mutual standards, investigate now. Call your local agent today. Look up "State Farm Insurance" in your classified phone book.

STATE FARM MUTUAL *"the careful driver insurance company"*

State Farm Insurance is written only by the
State Farm Mutual Automobile Insurance Co.
and its wholly owned affiliates:
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Home office: Bloomington, Illinois. Field claim offices in 300 principal cities. 7,000 agents in 40 states and Canada

Hear "Cecil Brown News Commentaries" Saturdays and Sundays over Mutual stations. Check local radio listings.

the choice of 2,900,000 car owners because . . .

1. Low rates—based on millions of accident-free miles driven by our carefully selected State Farm members. We are an independent, mutual company. "Independent" means we make our own rates. "Mutual" means our policyholder-members own the company and share in the savings on low claim costs. Profits go back to members in the form of low rates on their automobile insurance.

2. Easy, twice-yearly payments—a real convenience for budget-minded folks. State Farm can bill premiums semi-annually because it handles all bookkeeping and billing in streamlined fashion in nine branch offices. This no-extra-cost service also enables us to calculate your savings *twice* yearly . . . gear them quickly to the careful driving records of members in your area.

3. Prompt claim service—at home or away. More than 7,000 State Farm agents stand ready, day or night, to serve you in case of accident. Backing them up, whenever necessary, are 700 field adjusters working out of 300 strategically located offices. Wherever they live . . . wherever they travel . . . State Farm members can rely on claim service that's fast and fair.

Beautify your home, once and for all, with Gold Bond Asbestos Shingles

LOOK what happens when you reside a dingy-looking house with Gold Bond White Wood-Grain shingles! Suddenly, it looks like new . . . and it'll stay that way for years and years. These asbestos-cement shingles never need painting for preservation. That means you'll actually pay for your Gold Bond Asbestos Siding with the money saved on paint jobs over the years. Can't burn or rot, either!

Or you may prefer Gold Bond Chroma-Tex shingles (shown at top). Chroma-Tex shingles have a smart striated texture and fresh decorator colors. They are protected against dirt and weather by Gold Bond's exclusive "Surfaseal" Finish—which keeps your house looking handsome year after year. Your Gold Bond building materials dealer or siding contractor will be happy to show you his line of Gold Bond Asbestos Shingles.

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Please send me absolutely free your folder on Gold Bond Asbestos Sidewall Shingles.

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Gold Bond ASBESTOS SIDEWALL SHINGLE

Easier feed handling

From page 47

handling grain-silage mixtures ranged all the way from 43 to 190 pounds per minute, depending on the arrangement of feed bunks and number of gates to open.

Operators having the highest levels of efficiency unloaded silage directly from the silo into the wagon. Most of them stored ground feed in overhead bins or feed was spouted from the grinder directly into the wagon. *These men had no gates to open and close between storage and feeding areas.* Feed bunks were built into the feedlot fence so all feeding could be done from *outside* the lot.

Costs of moving feed by tractor and wagon on 16 northern Illinois farms averaged 32 cents per ton—25 cents tractor cost and 7 cents for wagon cost. Hauling the feed and scooping it into the bunks required about ½ hour labor per ton of feed—about the same as the average carrier system.

However, on the more efficient farms, the labor and equipment costs were lower. The better layouts needed only about 20 minutes to haul and scoop a ton of feed. Equipment costs were just 21 cents per ton of feed—15 cents for the tractor, 6 cents for the wagon. This is just a little over the cost of using a carrier system, but nearly 50 percent less labor was needed.

Self-unloading wagons or trucks provide a rapid and economical means for feeding large herds. This equipment can help make a *one-man* operation out of 400 to 500 cattle. And the same equipment may be practical for herds less than 200 if labor is scarce and if the self-unloading wagon can be used for other purposes.

The best self-unloading wagons unload silage or silage-grain mixtures at the rate of 1,000 to 1,500 pounds per minute. This comparatively high rate permits saving both in labor and tractor operating costs. The average cost of using self-unloading wagons on 6 farms was 23 cents for each ton of feed. Costs on farms with the most convenient layouts and larger herds averaged only 18 cents. Add 9 cents for use of a tractor and you have equipment cost of

[*Turn to page 72*

Silage scoop is used to remove manure from feeding floor. Posts are set in concrete curb—scoop runs along straight edge

B.F.Goodrich

Power-Grip Tractor Tire will do a great traction job for you, too!

It looks bigger—it is bigger!

It's the powerful, new B. F. Goodrich Power-Grip tractor tire, built to do a great job of traction. Knife-action cleats bite easily into the soil, take a firm, non-slip hold. Full traction in forward or reverse is the result, even in rough going. Power-Grip cleats are higher at the shoulders for deeper penetration, greater drawbar-pull. You can keep on schedule in any kind of going. You'll cover more ground in less time.

Bigger shoulders!

The bigger Power-Grip shoulders are reinforced at the base to give them extra support. They stand rigid even on hard surfaces. They bite into the soil without bending. And the shoulders are square cut to defy slippage. Every turn of a B. F. Goodrich Power-Grip tire counts for maximum traction. Dirt falls from the open-center tread and open channels as the tire rolls. Power-Grip tires stay clean, and only clean tires can give you full traction.

The B. F. Goodrich Power-Grip is the biggest tractor tire value on the market today. It's the tire that comes on new tractors.

Bigger cleats!

You get more tire, more working power for your money with the big B. F. Goodrich Power-Grip tire. The cleats have a bigger face area to press against the soil, pull you through faster. Count the cleats on leading makes. Time after time you'll find that size for size, the BFG tire has more cleats. And no other tire is wider than Power-Grip! A big, broad tread with extra cleats means greater power for you.

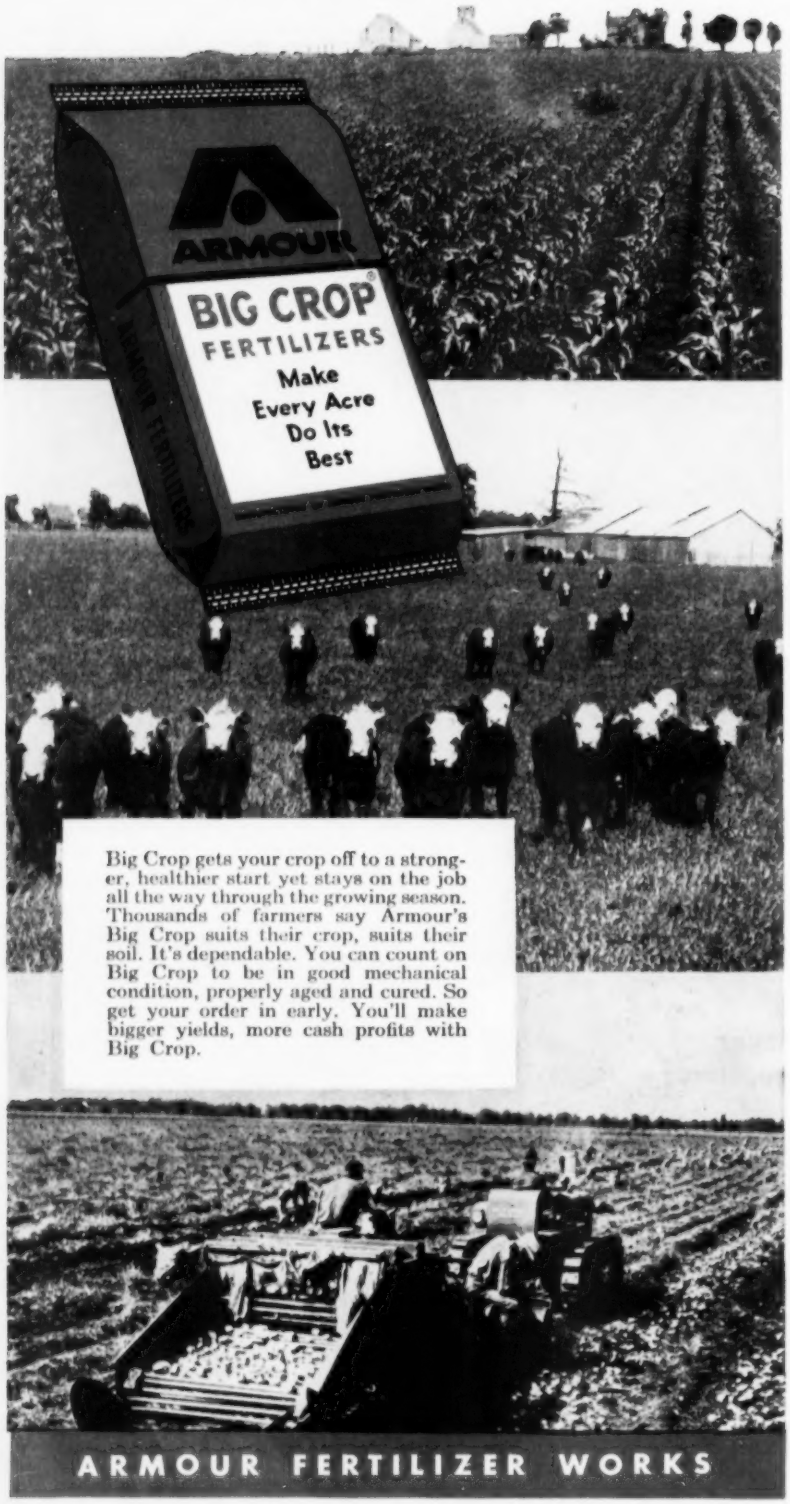
Wonder Tread truck tire!

That's what users call the BFG Heavy Duty Express truck tire. The tread is flat and compressed, will give you bonus miles of service at no extra cost. See your B. F. Goodrich retailer. He has tires for every farm need. The address is listed under Tires in the Yellow Pages of the phone book. Or write *The B. F. Goodrich Company, Tire & Equipment Division, Akron 18, Ohio.*

RESEARCH KEEPS B.F.Goodrich FIRST IN RUBBER

BIG CROP®

stays on the job 'til the harvest is in!



Big Crop gets your crop off to a stronger, healthier start yet stays on the job all the way through the growing season. Thousands of farmers say Armour's Big Crop suits their crop, suits their soil. It's dependable. You can count on Big Crop to be in good mechanical condition, properly aged and cured. So get your order in early. You'll make bigger yields, more cash profits with Big Crop.

ARMOUR FERTILIZER WORKS

Easier feed handling

From page 70

27 cents per ton of feed moved, compared to 21 cents for wagons, and 15 cents for carriers.

But while equipment costs go up on farms where more machinery is used, the amount of labor and difficulty of work go *down*. Six operators using self-unloading wagons averaged only about 15 minutes to haul a ton of feed and unload it into feed bunks.

Arrangement of buildings and lots is of highest importance. You must have a convenient work area and take full advantage of *laborsaving features* to make up for the high initial cost. Direct loading of silage and concentrates, a clear travel route between feed storage and feedlot, and a continuous line of bunks are essential to make this the most economical and laborsaving method of feeding a large herd.

A blower system and self-feeders for handling concentrates combines grinding, handling, storing, and feeding all in one operation.

For handling silage alone, one of the best methods is to feed direct from a stack or trench into fence bunks with a tractor-mounted power scoop. This eliminates loading and unloading a wagon. Silage also can be self-fed from trenches or stacks. This method gets rid of about 90 percent of the labor required by ordinary methods.

The type, location, and arrangement of feed bunks influence the degree of efficiency that you can reach in any feeding system. Bunks inside the cattle shelter are usually *unsatisfactory* except possibly for small herds. Also, less bedding and barn space is needed for the herd if bunks are kept in the open lot or built into the lot fence.

Bunks inside the feedlot work best for an overhead carrier system. Cattle can feed from both sides, keeping walking distances shorter than with fence bunks.

Fence bunks are one of the most important laborsaving features of a wagon system or a self-unloading wagon system. When feeding inside the lot, $\frac{1}{4}$ to $\frac{1}{2}$ the total feeding time is often used for opening and closing gates, driving in narrow spaces, backing at turns, and avoiding cattle and hogs.

Trenches, stacks, upright silos—all can be used to make good silage. But wide differences exist as to investment costs, useful life of silo, and methods of feeding. Investment per ton of storage space ranges from about $1 for earth trenches to more than $30 for small upright silos.

Cost of concrete-stave silos varies from about $1,100 for a 10x24-foot silo to $3,300 for an 18x60-foot silo. However, the largest of these silos provides storage space for less than $\frac{1}{3}$ the cost per ton of the smallest one.

The airtight steel silo costs around $21 per ton of storage space, not counting the cost of the unloader. This compares to about $14 in a conventional upright silo of similar size.

Many cattle feeders find it more economical to use the airtight silo for grain storage rather than for silage. Costs range from 60 to 70 cents per bushel. High-moisture grain can be stored safely.

Trench silos and stacks provide the *least expensive* silage storage. An earth trench silo costs less than $1 per ton. A concrete floor raises the cost to $2 to $3 per ton. Concrete walls and floor bring the cost up to about $6 per ton.

You'll have more trouble removing grass silage than corn silage, no matter where you store it or how you handle it, as grass fibers make a tighter pack.

Silage in an upright silo can be removed by hand or with a mechanical surface unloader. A man can fork corn silage at the rate of 190 pounds per minute—130 pounds of grass silage. The output of mechanical surface unloaders is much lower, averaging slightly less than 60 pounds per minute for corn silage and only about 40 pounds for grass silage. Low rate may not be a disadvantage, except with large herds where it is a bottleneck.

Hand unloading from upright silos calls for practically no investment in equipment. Costs of operating surface unloaders, exclusive of labor, ranged from 73 cents to $1.34 per ton. Most of the difference was due to the number of cattle on feed. The more silage you handle, the lower the cost per ton.

The bottom unloader of the airtight silo removes silage at the average rate of about 120 pounds a minute for corn silage, and 50 pounds for grass silage.

Costs of operating bottom unloaders depend on the amount of silage and the rate of unloading. With corn silage, costs ranged from $1.24 to $1.43 per ton. Costs of unloading grass silage varied from $1.52 to $1.78 per ton. These costs were based on one unloader for each silo.

Using a tractor scoop, silage can be removed from a trench or stack silo from 3 to 6 times *faster* than a mechanical unloader will handle it in upright silos. With tractor equipment, silage can be picked up and loaded on a wagon at a rate of 300 to 400 pounds per minute. It makes little difference whether it is grass or corn.

A power scoop is the least expensive means of handling silage mechanically. Costs for tractor and power scoop varied from 15 to 20 cents per ton of silage removed from trenches.

Whatever system of feeding you follow, here are several things you can do to make cattle feeding *easier and less expensive:*

1. Pave feedlot and gravel driveways.
2. Stay out of feedlot if possible.
3. Let gravity move feed when possible.
4. Store hay and straw at ground level, but keep concentrates overhead.
5. Avoid carrying feeds by hand.
6. Make best use of machinery and equipment you already have.

And don't forget the rest of the farm business. That $500 in machinery probably will save labor, but the dividends might be much greater from $500 worth of fertilizer or better breeding stock. **END**

BOOST YOUR PER-ACRE YIELD with *Energized* Vertagreen®

Get extra growing power in your fields, extra per-acre yields with Vertagreen. Every year more and more farmers report remarkably higher yields with Vertagreen than with any other plant food they've ever used. Vertagreen is carefully blended so that every bagful, every ton contains a proper balance of plant food elements. This perfect balance of active elements gets your crop off to a quick start and carries it through to harvest time. See your friendly Armour agent today. Ask him for Vertagreen—an analysis especially prepared for soils and crops in your section.

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TRACTOR PISTONS
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Larger Diameter
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Overloaded engines take more gas. With Add POW'R Pistons your tractor does more work on every gallon of fuel. That's *real* power economy. No down shifting in the tough spots. Insist on genuine Add POW'R—the most copied, most powerful tractor pistons.

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NEW Live-POW'R P.T.O.
Constant Speed Independent of Ground Travel

Does auxiliary engine work. Stops slugging of pto driven machines. Fits Farmall H, M, Super H or Super M. Handles twice the power your Farmall can produce. The only continuous pto with this 2 to 1 safety factor.

NEW Live-POW'R PUMP
Continuous Two Way or One Way Live Hydraulic System
One way or two way operation at the touch of a finger. Fits both present or new equipment. Complete unit for Farmall M. Nothing else to buy.

M and W Nine Speed Transmission Gives Farmalls 4 More Field Speeds
Adds 6, 7½, 9 and 11 mph. Adds extra reverse and pto speed. Saves gas—saves hours! Fits *all* Farmalls!

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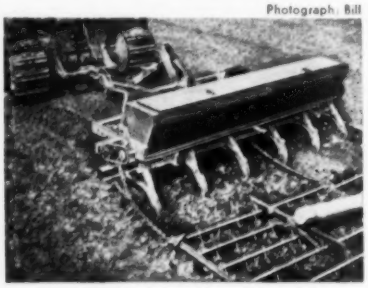
Soils and crops

Plows, fertilizes, harrows —all in one operation

When it comes to getting the soil ready for planting, both time and power are saved by M. B. Roth, Tazewell County, Illinois, using the setup below.

Roth mounted a fertilizer box on top of a cultivator (which he uses as a plow), and follows this with a harrow. He controls the depth of the cultivator points hydraulically, from the tractor seat.

Photograph: Bill



Spouts behind the cultivator points distribute the fertilizer at a 6-8 inch depth. The fertilizer-box mechanism consists of a chain and sprockets. Cultivator wheels provide the power for spreading the fertilizer into the soil.

• • • •

Keep terraces open all through winter

Drifting snow often will fill a terrace channel. Then, a warm rain following can cause water to pool and break over the ridge, forming gullies down the field.

To prevent this, says Harry R. Slayback, extension man in soil conservation at Rutgers University, drag a log lengthwise through the channel with a tractor.

• • • •

Early corn hybrids have these advantages

Here are five reasons why farmers are taking another look at earlier hybrids:

1. They beat the frost. Farmers in the Northern Cornbelt fear frost from late August on.

2. Earlier hybrids yield almost as much as later varieties. In one Minnesota test, the longest season hybrid made less than 2 bushels per acre more than the shortest maturing variety.

3. Early corn can be picked from a week to 10 days sooner. This permits grain farmers to hit the earlier—and higher—market.

4. An early variety permits seeding the cornfield to wheat after picking. Farmers in Ohio, Indiana, and a few other states need an early hybrid to go from corn to wheat.

5. In the South, and during dry, hot years in the North, early corn is made before summer heat hurts pollination or stops growth.

• • • •

Fertilizer carryover bigger after drouth

When yields are low in a dry year such as 1953, look for a big carryover of nitrogen, phosphorus, and potash the following year.

O. T. Coleman, University of Missouri soils specialist, says the lower your yields in 1953 due to the drouth, the bigger the carryover you can expect in 1954. According to Coleman, one-half to one-third of the nitrogen applied in 1953 will carry over if you had low yields.

If yields were normal for the amount of nitrogen you used, you can expect half of the fertilizer to remain. But if yields were good in 1953, in spite of the dry weather, only about one-fourth of the nitrogen is carried over to the following crop.

Carryover of phosphorus and potassium varies greatly. These minerals are easily lost during winter in erosion if they were not plowed under or worked deeply into the soil. Vegetative or protective cover on slopes helps increase their carryover.

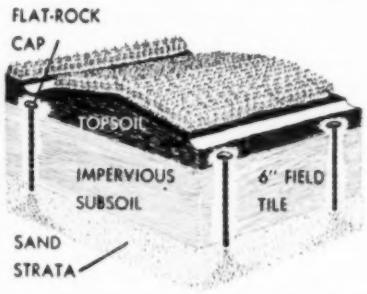
• • • •

Drain heavy, sticky clay straight down with tile

What happens when it's too costly to take water off your soil in a surface ditch, yet tiling is impossible because of a watertight subsoil?

That situation came up in Scott County, Iowa. This is how Soil Conservation men drained the problem land.

First, they bored into the soil 12 feet and found a sand layer. Then, they used



a posthole digger with an extension to make a hole for 6-inch tile. The hole was filled with 6-inch tile, and 18 inches below the surface, a flat rock was placed on the top tile (see drawing above).

[*Turn to page 76*

YUM! YUM! Fried Chicken—and over 3 pounders in 9 weeks. These are actual figures picked at random from our records of hundreds of MoorMan customers. How did they do it? They did it with their own good yellow corn—produced right on the farm. MoorMan's CoxiCurb Mintrate* for Starting and Growing Chicks helped release the growth power and energy in that corn.*

THEY AVERAGED 3.17 LBS.

IN NINE WEEKS WITH MOORMAN'S

Total feed consumed per pound of gain, 2.37 pounds. Total cost per pound of gain, 12.57c.

You, too, can get more chicken from less feed if you will multiply the value of the good yellow corn you have right on your farm. The chicken is in your corn. By simply combining 100 pounds of MoorMan's CoxiCurb Mintrate with 200 pounds of your yellow corn, you have the highest energy, lowest fiber chick starter available anywhere. A ration containing less than 3% fiber. CoxiCurb Chick Mintrate is a combination of proteins, vitamins and minerals, designed specifically not only to supplement but to bring out the feed value in your yellow corn. It also contains an ingredient to help lick death losses from that old poultry scourge, coccidiosis.

Here are 7 big reasons why it will pay you to feed MoorMan's CoxiCurb Chick Mintrate to your starting and growing chicks this year:

1. You buy only ⅓ of your chick starter off the place. You have the other ⅔ right in your own corn crib. *Buying ⅔ of the ration from yourself cuts your feed bill in half*—saving you freight and sales costs on ⅔ of your chick ration.
2. Corn and Mintrate make the highest energy, lowest fiber chick starter anywhere—less than 3% fiber. *In fact, fiber has been removed from some of the ingredients in Chick Mintrate.*
3. Your ration is all chick-nourishing feed—no valuable ingredients removed from your grain.
4. You spend less dollars out of your pocketbook—about ½ the money you would ordinarily spend.
5. This famous Mintrate now contains an ingredient that helps prevent serious death loss from coccidiosis.
6. Easiest to use concentrate on the market. *Combining corn and Mintrate is simple and easy.*
7. Low cost gains and fast growth proved by hundreds of thousands of MoorMan customers on millions of chicks the past four years.

BUY NOW FOR THRIFTIER FLOCKS . . . protected against profit-robbing coccidiosis . . . at lower cost to you. Ask your MoorMan Man about MoorMan's CoxiCurb Mintrate for Chicks, or regular Mintrate for Chicks. He has both. With either you will get greater growth energy out of your own corn . . . outstanding gains at small cash outlay. Thousands of poultry raisers have switched to MoorMan's in the past four years for faster growth of healthier chicks at LOWER COST. Call or see your MoorMan Man today—or write Moorman Mfg. Co., Dept. R4-2, Quincy, Illinois, for prices and full details.

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MAKERS OF VITAMINIZED PROTEIN AND MINERAL CONCENTRATES FARMERS NEED, BUT CANNOT RAISE OR PROCESS ON THE FARM.

● THIS PICTURE FREE If you'd like a copy of this picture with the headline type removed, printed in color on heavy offset paper suitable for framing, just drop a post card to Moorman Mfg. Co., Dept. R4-2, Quincy, Ill., and ask for it.

HEAT ALONE IS NOT ENOUGH

for your comfort

Even in the heyday of the pot-bellied stove, folks knew that there must be a better way to achieve comfort *throughout* a home. The search for a better way led to the development of Waterbury furnaces and winter air conditioners, the finest in warm air heating systems.

Dependable and trouble-free, Waterbury installations provide completely automatic heat, no matter what the weather. Quick, efficient distribution of air that is filtered, heated to the proper temperature and properly humidified, gives you a delightful indoor climate without distressing hot and cold spells.

What's more, Waterbury furnaces and winter air conditioners are engineered to save you money on fuel. So let comfort and economy guide your choice of a heating system . . . choose Waterbury.

Waterbury *furnaces*

AND AIR CONDITIONERS

and now!

You can have absolute control of indoor climate, *winter and summer*, with a Waterbury Year 'Round Air Conditioner. It means comfort no matter what the temperature is outside. Your Waterbury Dealer will give you the details.

The Waterman-Waterbury Co.

OVER 47 YEARS OF WARM AIR HEATING

1182 JACKSON STREET N. E.

MINNEAPOLIS 13, MINNESOTA

Soils and crops

From page 74

The vertical well-type drainage worked so well that more were put down after they first proved their practicality. The formerly "always wet" areas now produce good crops.

Caution: Shallow wells nearby these vertical drainage tile may be contaminated by water draining into the sand layer from the surface.

• • • •

Several causes for alfalfa "yellows"

Boron deficiency is not the only cause of a yellowing of alfalfa. Dr. C. J. Willard, agronomist at Ohio State University, says anything that makes alfalfa sick results in yellow coloring.

Doctor Willard names the damage done by the alfalfa leaf hopper (also called potato leaf hopper) as the most frequent cause of alfalfa yellowing in the Midwest. Also, soils that drain poorly may become too wet and cause plants to yellow.

The moral here is to check the cause of the yellowing, for correct treatment. If poor drainage is to blame, tiling or surface drainage will help. If leaf hoppers are to blame and the infestation is very severe, use 1½ pounds of actual methoxychlor per acre, and keep cows out for a week. If infestation is not severe, it won't pay you to spray.

New southern bromegrass coming for Upper South

Southland is the newest variety of southern bromegrass.

It has outyielded five other varieties consistently in the last three years. Southland yielded more than 400 pounds per acre more forage a year than the next-ranking variety, Achenbach.

Other advantages of the broad-leafed, heavily stemmed variety are greater seedling vigor and better adaptation to southern conditions. It will be most useful to farmers in these states: Oklahoma, Texas, Arkansas, Kansas, Missouri, Tennessee, and Kentucky.

• • • •

Kills locust, sumac, brush with 2,4-D spray

Carl Miller, of Pottawatomie County, Kansas, kills black locust trees on his farm with one spraying of 2,4-D.

Miller applies a solution of ½ gallon 2,4-D ester in 15 gallons fuel oil. He uses a power sprayer and makes sure the tree is wet to a 10-foot height. The same solution kills stumps and sprouts.

Sumac and buckbrush are killed with a solution of ½ gallon 2,4-D in 1 gallon fuel oil and 50 gallons water.

Adjustable land-roller opens up from 16′ to 25′ in width, permits easy passage through gates. Cantilever system is operated with hydraulic motor on the tractor

Seeds 17 acres per hour

Maybe seeding 17 acres per hour won't win the speed trophy at the state fair, but it's fast farming in anyone's field.

Hayes Alexander, Will County, Illinois, built this speedy seeding setup. It's a laborsaver, too. A $15 hydraulic motor is used to operate both the seeder and the rollers. The controls are located by Alexander's right hand. The hydraulic motor is easily removed for use on other machinery.

The endgate seeder has the original seeder-blade mechanism and hopper bottom. Four bolts hold it to tractor.

Framework for the two old rollers was made from scrap iron.

Photographs: Hancock

Enlarged engate seeder is attached to front of tractor. Size of hopper openings can be controlled by means of the hydraulic motor

Compare a Cat® Diesel Tractor with a wheel tractor of equal size on a plow. In this photograph, a 38 belt HP D2 pulled 4-14s, plowing 60% more than a 38 HP wheel tractor. This means that you or your hired help accomplish much more . . . your time is worth so much more . . . with a Cat Diesel Tractor.

"NAME THE DATE... I'LL DEMONSTRATE!"

This is a challenge from your Caterpillar Dealer:

You name the day . . . the hour . . . the place . . . and he'll bring a Caterpillar Diesel Tractor for you to try out on your farm. **You** take the controls. **You** hold the stop watch. **You** check the fuel consumption. See with your own eyes . . . prove from your own records how a Caterpillar Diesel Tractor will cut your fuel bill 60% to 80% . . . help you accomplish so much more . . . handle the extra jobs you've always wanted to do, but couldn't with ordinary wheel-type tractors! Caterpillar Tractor Co., Peoria, Ill., U.S.A.

DIESEL FARM TRACTORS • TOOL BARS • IMPLEMENTS

Compare the extra jobs a Cat Diesel Tractor will handle — The Cat D2 Tractor has 7500 lbs. of push on a dozer . . . practically twice that of ordinary 3-plow wheel tractors. This gives you far greater capacity to move a lot of earth, push out trees, etc.

Compare equipment costs — You can outfit your Cat D2 Tractor with the following Cat Tool Bar equipment including bulldozer, tool bar, 8 cultivators, subsoiler, and beams for $972.15+ — far less than you'd expect to pay for a bulldozer **alone!** +Price f.o.b. factory, Peoria, Ill., and does not include tractor and hydraulic controls. Subject to change without notice.

Compare cost of operation — Actually, few 38 HP wheel tractors could handle this subsoiler going 22" deep, but the 38 belt HP D2 can pull about 3300 more pounds. On jobs like this it burns about 2 gallons of 12¢ to 15¢ diesel fuel per hour. In most areas a Cat Diesel Tractor will cut your fuel bill by 60% to 80%, if you presently farm with a gasoline tractor.

CATERPILLAR®

WANT TO SEE HOW A CATERPILLAR DIESEL TRACTOR FITS YOUR PROGRAM?

For a free demonstration, send coupon to Caterpillar Tractor Co., Peoria, Ill., Dept SF24

I farm _____ acres, with these principle crops _____

I have these tractors _____

I (have) (have not) land to clear. How many acres and type of trees? _____

☐ I want a demonstration, no obligation.
☐ Check here if student

Name _____

Address _____

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Here's how you can take advantage of this money saving plan: Order your supply of Phillips *66* Motor Oils, Gear Oils and Greases. Set a delivery date—anytime before May 31, 1954. That's all there is to it.

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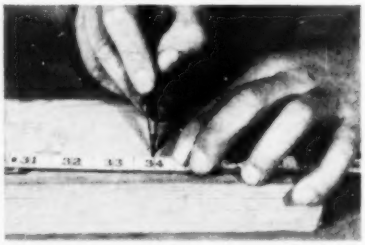
- **Generous Discounts** . . . you start saving money on orders as small as 15 gallons . . . discounts are up to five cents a gallon.
- **Top Quality Products** . . . you get all the special advantages of high quality Phillips *66* products.
- **No Down Payment** . . . you make arrangements for paying later.
- **Assured Supply** . . . you have the products you need when you need them.
- **Price Protection** . . . you are protected from any price increases.

Don't delay in getting your order in. Call your Phillips *66* Distributor today.

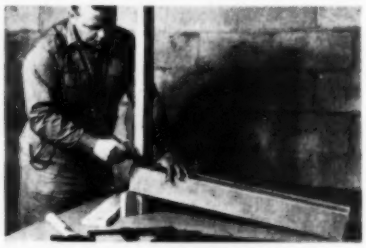
PHILLIPS PETROLEUM COMPANY

Phillips 66

How to Build

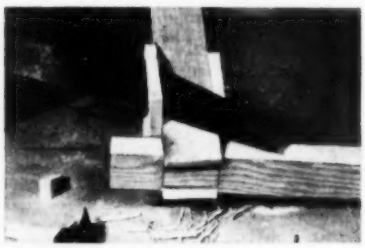


1. Start with 2x4 lumber for top of the horse. Mark it for length—in this case, 34". Use longer piece for a larger horse

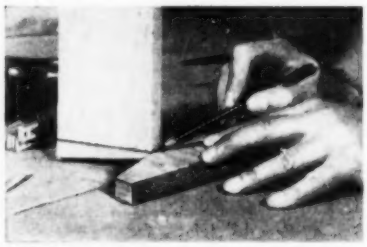


3. Stand 2x4 on end for marking leg position. Rest legs on a scrap 1x4 to get proper leg angle. Hold the 2x4 vertical for marking

5. Nail 1x4 legs into place on the 2x4. Use 8d coated nails, drill nail holes to prevent splitting the 1x4. Hammer joint tightly

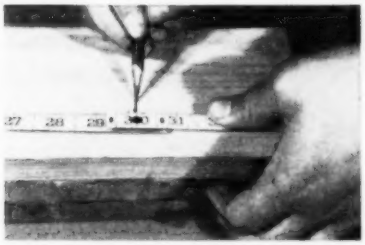


7. Saw off protruding ends of braces so they are flush with wide side of legs. Hold saw so it does not bite into or mar the legs



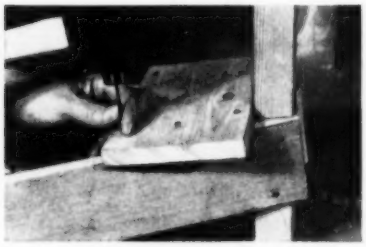
9. Place sawhorse on level surface, use scrap to help mark line around bottom of each leg. Mark all before cutting off any

a sawhorse

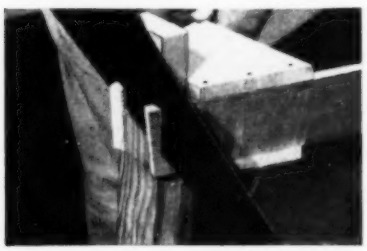


2. Use 1x4 for legs. A 30" height is about right for most conditions, but you can vary the leg length to fit sawhorse application

4. Use square in marking ½"-deep inset cut, saw on lines to depth of inset. Chip out wood with chisel to make place for leg



6. Apply 10"-long 1x6s to both sides of legs under 2x4. Nail these also with 8d coated nails. Spread legs same at each end



8. Next, saw off the ends of 1x4 that extend above the 2x4. Top of the sawhorse should be smooth. Now you "even up" legs

Photographs: Riggle

10. With 4 legs cut off, sawhorse now stands squarely on level surface. You can get extra rigidity by using glue in joints

New Idea full trailing-type mower in thick stand of mixed timothy and red clover. Quiet and smooth-running, this mower trails perfectly, cuts evenly.

7 ways to lower mowing costs

- **Buy a mower that is quick on-and-off.**
  Frees tractor immediately for other work while hay cures. You can take quick advantage of weather breaks.
- **Buy a mower that will last.**
  You need rugged strength without excess weight. Close tolerances and correct balance keep machine from vibrating itself to pieces.
- **Buy a mower that cuts clean on square corners.**
  Then you don't have to back up, circle, or figure-eight. Saves time and fuel. But be sure the machine is built so there is no strain on the PTO or universal joints.
- **Buy a mower that is simple to adjust.**
  To keep lead and pitman straps properly adjusted at all times for maximum cutting efficiency.
- **Buy a mower with protected gears and moving parts.**
  Gear assembly should be sealed in oil, free from dust and grit. Bearings should be protected and easy to grease.
- **Buy a mower with modern pitman bearing.**
  To stand the constant pounding of the reciprocating motion of the sickle, crank bearing should be a completely sealed roller bearing.
- **Buy a mower that is safety engineered.**
  Cutter-bar safety release is a must. Safety shields enclosing moving parts help insure against human error. Trailing cutter-bar gives you time to stop before accidents occur.

You will find every one of these time and money-saving features built into NEW IDEA trailing or semi-mounted type mowers . . . mowers that are a major tool at NEW IDEA, not a side-line. Use these mowers to bring costs down. Ask your NEW IDEA dealer to demonstrate a NEW IDEA mower. Compare other makes. We think you'll end up owning a NEW IDEA.

NEW IDEA FARM EQUIPMENT COMPANY AVCO

Dept. 1046, Coldwater, Ohio

MAIL THIS COUPON TODAY FOR FREE FOLDERS

Send folders as checked:

- ☐ No. 30-A Trailing Mower
- ☐ No. 40 Semi-mounted Mower
- ☐ High-wheeled Side Rake
- ☐ Low-wheeled Side Rake
- ☐ Wire or Twine-tie Baler
- ☐ Elevator
- ☐ Need for schoolwork
- ☐ I farm ____ acres

NAME _____

ADDRESS _____

COUNTY _____ STATE _____

Add beauty and comfort

to your **Dining chairs**

Before

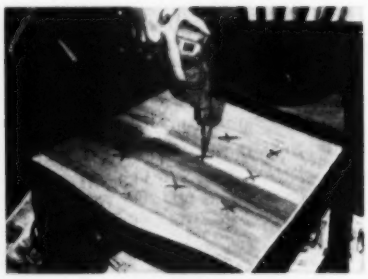
After

You can do it with foam-rubber cushions topped with a new cover

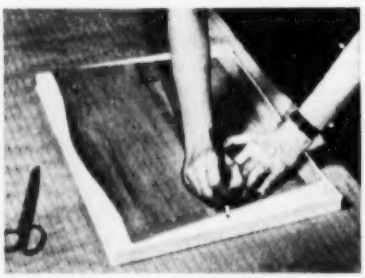
Nothing helps perk up your dining room like fresh covers on your chairs—especially if they're showing the wear and tear of growing children and spilled food. Chances are the cotton-batting pads are becoming bumpy, too. So why not take an afternoon off and put new life and looks into them by adding foam-rubber padding and cover with a smart, new fabric which will blend with other colors in your dining room. Follow these 7 easy steps and do it yourself:

1. Old chair seat is easy to remove. Just take out screw in each corner (save screws).

2. Remove old cover from plywood seat by lifting tacks with screwdriver or knife



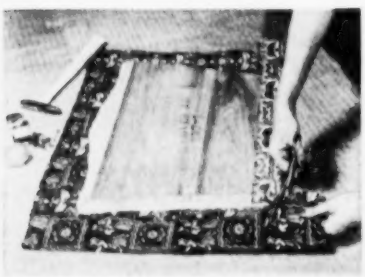
3. Before putting foam rubber over seat, bore holes to give foam "breathing" space



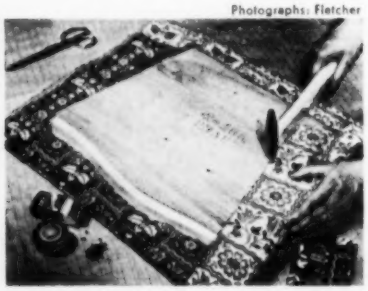
4. Using seat as a pattern, mark outline on foam, allowing ¼ inch more all around

5. Follow the penciled outline and cut foam seat from square, using large scissors

Photographs: Fletcher



6. Cut fabric; allow 4 inches all around. Cut out corners of the fabric to avoid bulk



7. Hold fabric in place with gummed tape, then tack every inch. Ease in on the curve

Betty

Happy New Year:

Here in our Betty Crocker kitchens we've been thinking up a winter dessert. Turned out so well we named it for a sunny state, California Fiesta Peach Shortcake!

Look at it standing good-enough-to-eat just across the page; I can promise you it tastes every bit as good as it looks (we ate the last crumb!).

And it's so easy!

You need just three things: a package of Betty Crocker Honey Spice Cake Mix, a package of Vanilla Pudding (regular or instant), a can of Cling Peaches from California.

Now you're ready for your shortcake! You just add water and two fresh eggs to the Honey Spice Cake Mix. Fresh eggs make your cake extra-light, extra-special! And that Honey Spice smells so spicy-good, it makes you hungry!

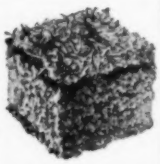
Bake your cake in two layers. Now make up the Vanilla Pudding, chill and open your sliced peaches. Put pudding and peaches between and on top of each cake layer. Serve extra peaches with each slice.

Other winter shortcakes

My White Cake tastes good with chocolate pudding. My Yellow Cake is a natural for any fruit shortcake. Devils Food's delicious with vanilla pudding. My Ginger Bread's a happy choice to serve with peaches, too.

Another good way to serve Honey Spice:

Try easy honey-coconut topping. Simply mix 2 tbsp. butter, 3 tbsp. honey, 1 tbsp. cream, ½ cup coconut, salt. Spread on warm cake. Broil slowly until brown.



And because we've tasted and tested so long to get our cake mixes just right—because we make them with SOFTASILK Cake Flour and other fine ingredients—you can be sure of a perfect cake every time you bake! We guarantee it!

They tell me Canned Peaches are a good buy right now. You might want to stock up.

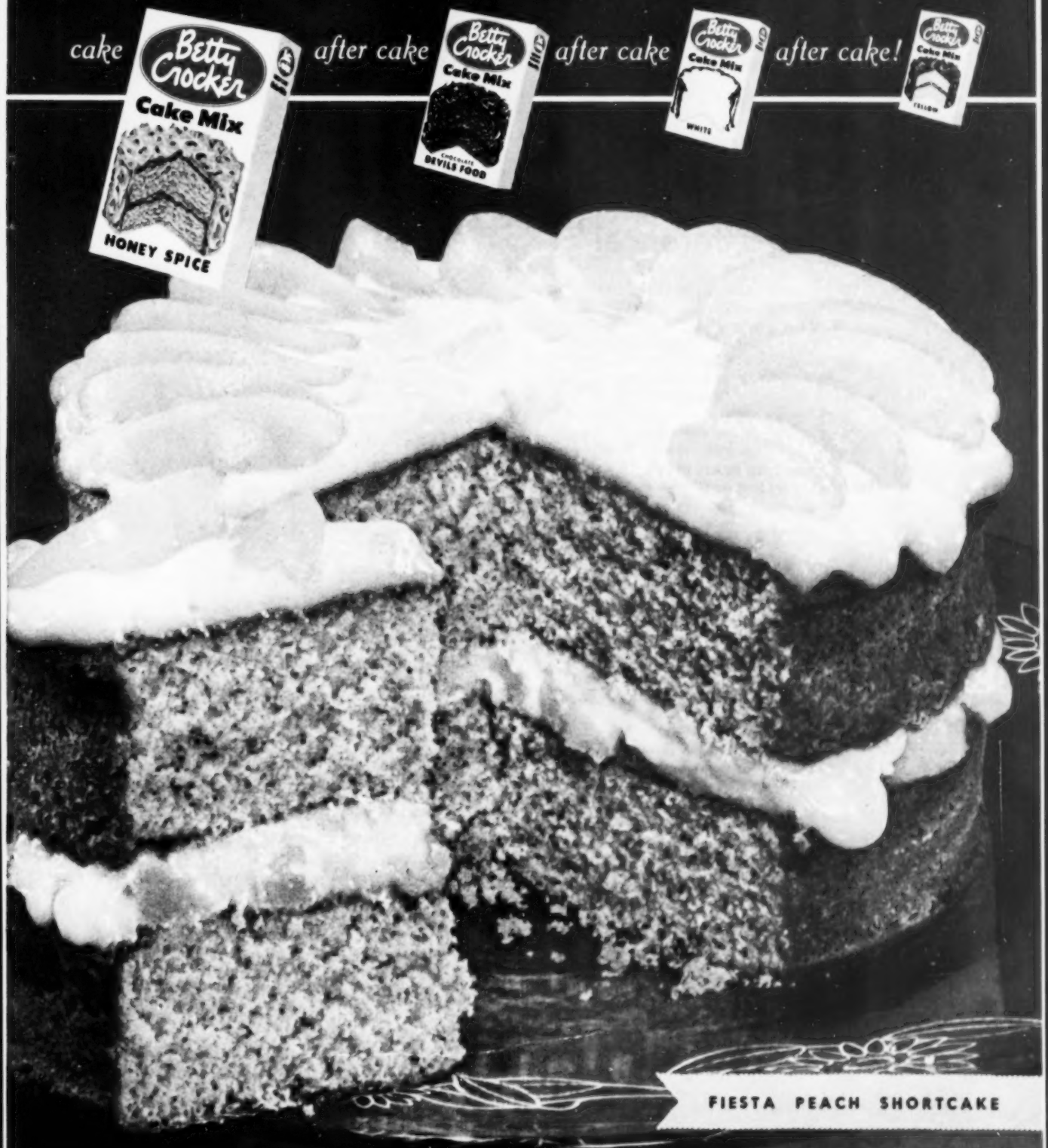
Betty Crocker
OF GENERAL MILLS

PERFECT? Yes, I DO mean perfect. You be the judge. If a cake you make with a Betty Crocker Cake Mix is less than perfect, write Betty Crocker, Box 200, Minneapolis, Minn., and General Mills will send your money back!

Crocker says: I guarantee—

A perfect cake every time you bake

cake after cake after cake after cake!



FIESTA PEACH SHORTCAKE

Let's face it...

COPPER

makes the difference!

Copper, the oldest metal known to mankind, conducts heat faster than any other metal used in cooking utensils. That's why Revere Ware has copper *where it counts*—on the bottom where heat meets utensil. Copper spreads the heat quicker, more evenly... so you save fuel and avoid hot spots. Revere Ware's thick copper bottoms combine with gleaming stainless steel bodies and cool Bakelite handles to make the world's finest, most durable cooking utensils. Try Revere Ware and discover that *copper makes the difference.* Buy Revere Ware at your dealers today.

REVERE COPPER AND BRASS INCORPORATED
Rome Manufacturing Company Division, Rome, N. Y.

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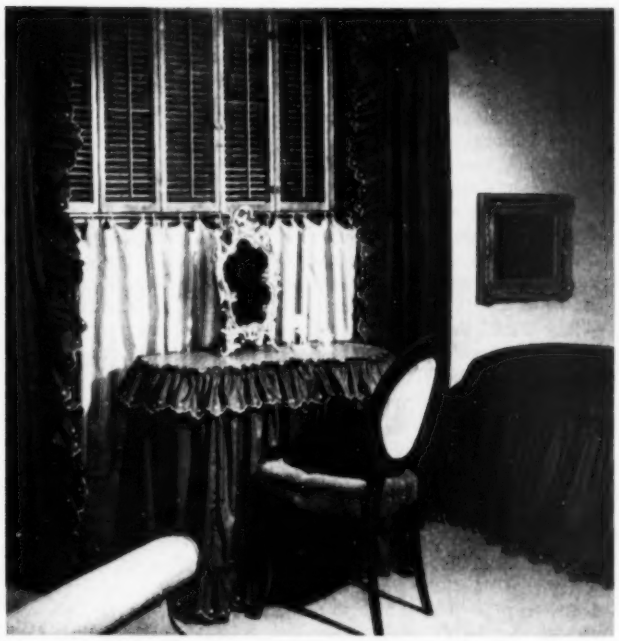
Copper	100.0%
Aluminum	54.2%
Cast Iron	11.9%
Steel	11.8%
Glass	.002%

**Taken at 100° C., the boiling point of water.*
Source: Handbook of Chemistry and Physics—34th edition.

Give your Bedroom a new winter outfit

You can do it on a budget with versatile ready-mades. Choice of fabrics and colors is unlimited; you can mix and match your own to suit your fancy and room



Charcoal-gray percale offers unlimited possibilities for dressing up a girl's room. Draperies can be tied back if you prefer. Set comes in variety of color combinations

Photographs: Hopkins

These bold black-and-white checks are bound to please the men in the family! Will go in any color scheme and are washable

Sturdy denim takes on dressed-up air on studio bed. Makes comfortable seating space by day — whips off easily at night. Spread is trimmed with bands of chenille

have you found out what RIT can do

to make a little girl's clothes look new!

No need for little sister to fret over hand-me-downs! They'll seem brand new when you dunk them in bright new color . . . in All Purpose Rit. And do put in a batch of socks when you're dipping little dresses, skirts or blouses. All Purpose Rit is *concentrated* . . . a little dyes a lot!

All Purpose RIT

The finest dye . . . the *high concentrate* dye . . . and only 25¢

RIT PRODUCTS CORPORATION
1437 W. Morris St., Indianapolis 6

GOOD SEEDING PAYS
IT SEEDS
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WESTERN
NEW COMBINATION

Famous Western Sprocket Packer and New Western precision built Seeder. Reasonably priced. Combines two operations in one. Pays for itself in saving seed, especially Alfalfa, Clover or any Grass Seed, sown mixed or separately. Even, accurate seeding of all seeds.

Seed drops, ahead of Packer and is pressed firmly into soil by both Packer and Mulcher wheels. Leaves surface mulch without grooves. Helps prevent washing and crusting. Holds the moisture. Gives every seed best chance to grow. Seeder mounted or removed quickly. Write for full information on combined unit of Seeder or Packer separate.

NEW BEAR CAT
COMBINATION
Grain and Roughage Mill also Ensilage Cutter

No. 4A

Trailer Mounted for Power Take-off Has traveling feed table and is especially designed for grinding or chopping larger quantities of loose or baled hay and roughage of any kind. Furnished either with or without Trailer Mount and Power Take-off. Both cutter knives and heavy swing hammers—it grinds any feed, green, wet or dry, snapped or ear corn, roughage bundles or baled flakes, with ordinary farm tractor—and no monkey business. Get full information on real honest-to-goodness grinding outfits. Write

Western Land Roller Co., Dept. 606
Hastings, Nebraska—Manufacturers

Amazing—NEW PATENTED ROTO TRACTOR SAW
Modern, Easy Way to Clear Land!

Quickly attached to Ford, Ferguson, Case, Allis Chalmers, John Deere, Massey-Harris
LOW PRICED!
Also POST HOLE DIGGER and WEED and BRUSH CUTTER — slight added cost

Sensational new and better power saw at a low price! Saws Down Trees at Ground. Clears Land Quick and *Easy!* Adjustable to many angles. One man operates from tractor seat! Fells trees fast! Zips up logs and branches. Abundance of power direct from Tractor P.T.O. No belts. Fully Guaranteed.

FREE FOLDER — Write today for **FREE** Folder and amazing **LOW PRICE.** Time Tested. Proved. Nationwide favorites! Write today. (5)

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Also New CHEROKEE
scab and blight-resistant
Grow Kennebec and Cherokee U.S.D.A.'s most talked-of new potatoes! Kennebec is heaviest yielder ever grown in Maine! Breaking records from Florida to Canada. Best cooker of all, and free from blight! Cherokee resists scab and late blight.

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DOES NOT CLOG!
Postpaid if cash with order. (West of Miss. add 50c.) Money Back Guarantee!
Also Gear Pumps in all sizes.

LABAWCO PUMPS $6.95
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There's fun—and money—in

Marsh and muskrats

By Bill Clothier

Beavers and mountain men have followed the Oregon Trail into a fading sunset, but a boy with trapper's blood can *still* run a trapline.

If you're a young sprout, and your father's farm has a few acres of marshland on it, why not raise and harvest muskrats?

You won't make your first million this way, but you *can* make a good piece of spending money—and have fun doing it.

In many cases, you can buy a stock of muskrats from the state if you have a marsh but no muskrats. First, you'd better check with someone in the game-management division of your state. He can tell you if the marsh will support muskrats. If it won't, you'll have to deepen part of the marsh, and plant some muskrat food—or forget the whole thing.

Muskrats ramble in 48 of the 48 states. They're tough rascals, and require little care if given a minimum of protection. To be happy, they need a marsh or pond where there's *some* running water, and a *lot* of plant food such as bulrush, cattail, or bluejoint. They'll even eat poison ivy—that shows how tough they are.

In the northern states, where ponds freeze over during the winter, muskrats need fairly deep water to survive. Otherwise, they'll freeze out and die. A marsh averaging 18" or less in depth—with a number of 4' holes scattered around—will save their hides for you.

If you own a muskrat-producing marsh, better fence it off. Not to keep the muskrats in (they won't go away) but to keep livestock out. Otherwise, cattle tromp around over the dens, may destroy them.

Remember this: If you give muskrats some protection, and they have a plant-stocked marsh to live in, they'll overproduce and eat themselves out of house and home unless you harvest the crop every year. The Fish and Wildlife Service recommends that about two-thirds of the population be skinned yearly.

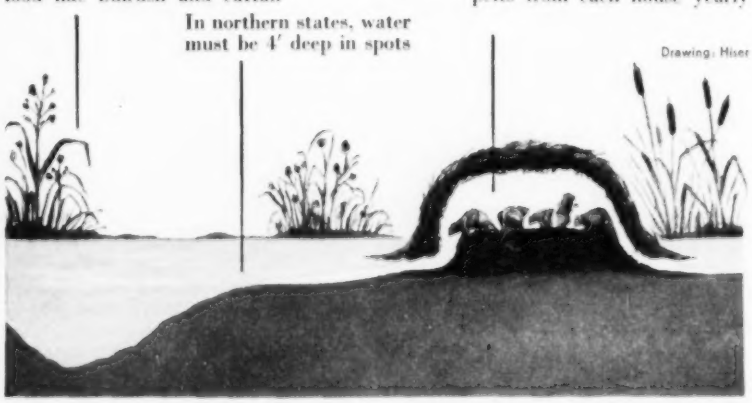
The price for pelts varies by year and area. During the past 10 years Northern muskrats have averaged around $2 per pelt, and Southern muskrats 50 cents to $1.50. The pelts aren't prime until December, and are in the best condition during February. Trapping seasons in many states extend from January 1 to March 15.

Steel traps Nos. 1 and 1½ are generally used. Traps can be placed slightly under water, in the mud of the trail or runway. Floating logs or boards make a good base for sets. When the marsh is frozen over, you can cut through the ice into a feeding hut lead, then set the trap in the lead. Traps should be checked daily.

Trapping regulations vary from state to state. Game-management authorities *in each state* can provide the necessary information on stocking and harvesting muskrats in a specific area.

For 20 cents you can obtain a bulletin on muskrat production and management—including skinning methods—prepared by the Fish and Wildlife Service. Write to the U. S. Government Printing Office, Washington 25, D. C.

Number of houses tell you how big a crop you can harvest



Muskrats build dome-shaped nesting houses, from 16" to 4' in height, made of vegetation. If more than 2 houses per acre show up, trap heavily, because the food supply won't hold out. House usually has 2 bolt holes. The pelts are prime in midwinter

New 2-day Treatment for Calf and Pig SCOURS

Scouring pigs? Diarrhea? Stop scours fast with new Terramycin Animal Formula.

Prevent scours in new-born calves. Mr. H. C. Rose, Rossville, Ind., writes, "We control calf scours with Terramycin. To date I have not seen even a trace of the disorder, which in the past was my most costly problem."

New, easy-to-use, wonder-working

Terramycin®

BRAND OF OXYTETRACYCLINE

ANIMAL FORMULA

TABLETS

NEW EASY TREATMENT FOR SCOURS, ENTERITIS, PNEUMONIA, SHIPPING FEVER, SEPTIC INFECTIONS

- ***Actual size***
- ***Scored tablet:*** Easy to break in half for small dosages.
- ***Easy to use:*** No mixing. No measuring. No equipment needed.
- ***Simplifies treatment:*** Terramycin, given by mouth, is quickly absorbed, gives sustained drug action. Fight Pneumonia, Shipping Fever this easy way.

Here's the new Terramycin Animal Formula Tablet. It contains the wonder-working antibiotic Terramycin to stop costly calf and pig scours.

No other antibiotic is effective against more animal diseases and possesses activity against more disease-causing organisms than Terramycin. So save buying medicine twice. Always get Terramycin first.

Now, combat Infectious Scours and Diarrhea in pigs and calves with the wonder-working antibiotic Terramycin in a handy, easy-to-use form —new Terramycin Animal Formula Tablets.

Quick-acting Terramycin hits directly at a wide range of dangerous bacteria in the digestive tract of scouring calves and pigs—often clears up Infectious Scours and Diarrhea in as little as two days!

New Terramycin Animal Formula Tablets are administered by mouth, making treatment extremely simple. There's no mixing. Nothing to measure out. No equipment necessary.

Get new Terramycin Animal Formula Tablets at your Animal Health Headquarters today.

Effective treatment of disease requires prompt, accurate diagnosis. Always consult your Veterinarian.

Pfizer

Chas. Pfizer & Co., Inc., New York
World's Largest Producer of Antibiotics

Stop in for dessert

From page 62

Gingerbread De Luxe

- 1 package gingerbread-cake mix
- No. 303 can cling-peach slices, well-drained
- ½ cup heavy cream, whipped

Prepare gingerbread according to package directions. Bake at 350° (moderate) for 30 minutes or until done or according to package directions. Let cool for 10 minutes. Turn out to finish cooling. Decorate with a border of whipped cream and drained peach slices.

Party Petits Fours (Makes 3½ dozen)

- 1 package white-cake mix
- 3 cups sugar
- ⅛ teaspoon cream of tartar
- 1½ cups hot water
- ¼ teaspoon lemon extract
- ½ teaspoon vanilla
- 2½ cups sifted confectioners' sugar (about)

Prepare cake mix according to package directions. Pour into a paper-lined 15½x10½x1-inch pan. Bake at 350° (moderate) for 20 to 25 minutes or until done. Cool for 10 minutes. Remove from pan by putting large cooky sheet over pan; then flip cake over onto cooky sheet. Cool and cut into diamond shapes. Frost with Petits-fours Frosting. *Flowers and leaves:* Make a thick confectioners'-sugar frosting. Divide frosting in fourths; leave one part white and tint remainder yellow, pink, and green. Force through decorating tube to make flowers and leaves. *Petits-fours Frosting:* Cook sugar, cream of tartar, and water to a thin syrup (226°). Cool to lukewarm (110°). Add flavorings. Add confectioners' sugar until of pouring consistency (about like molasses.) Tint half of frosting a pale pink. To frost Petits Fours, place cakes on spatula and pour frosting over from a measuring cup. Or, place cakes on wire cooling rack and spoon frosting over. When frosting has set, place cakes in cupcake liners. **Note:** If frosting gets too thick, warm it over low heat until of right consistency again.

Delicious Doughnuts
(Makes about 24 doughnuts)

- 1 14½-ounce package hot-roll mix
- ¼ cup sugar
- 1 teaspoon cinnamon
- 1 cup sifted confectioners' sugar
- About 2 tablespoons milk

Prepare dough according to directions on package. Let rise in a warm place until double in bulk. Knead; roll ¼ inch thick on floured pastry cloth or board. Cut with a 2½-inch doughnut cutter. Let rise again until double in bulk. Fry in deep, hot fat at 375° until golden brown on each side. Drain on absorbent paper. Shake half of the doughnuts in a paper bag with the sugar and cinnamon. Frost the other half with frosting made from confectioners' sugar and milk. Fry balls, too.

Banana Cream Pie

½ package pie-crust mix
1 package vanilla-pudding mix
2 bananas, sliced
½ cup heavy cream, whipped
Banana slices
Maraschino cherries

Prepare half a package of pie-crust mix according to directions on package. Arrange pastry in 8-inch piepan. Bake at 450° (hot) for 10 to 12 minutes. Prepare pudding mix according to package directions. Cool partially, stirring occasionally to keep skin from forming; fold in sliced bananas. Pour into cooled pastry shell. Decorate with mounds of whipped cream. Place banana slices (dipped in lemon juice) and maraschino cherries on the whipped-cream mounds.

Pineapple Upside-down Cake

⅓ cup butter
⅓ cup brown sugar
4 canned pineapple slices, drained
15 maraschino-cherry halves
¾ cup broken walnut pieces
1 20-ounce package spice-cake mix

Mix butter and brown sugar in a 9x9x 1¾-inch pan. Cut pineapple slices in fourths and arrange in pan. Add maraschino-cherry halves and walnut pieces. Prepare cake mix according to directions on package; fill pan half full. Pour remaining batter into lined 2½-inch muffin pans. Bake cake at 350° (moderate) for about 40 minutes until done. Remove from oven. Let cake stand 3 minutes. Turn out on plate. Serve warm. Put cupcake batter in refrigerator until cake is baked. Then bake at 375° (moderate) for 25 minutes.

Petal Biscuits (Makes about 15 biscuits)

2 cups biscuit mix
⅔ cup milk
1 tablespoon melted butter
⅓ cup cherry preserves

Combine biscuit mix and milk. Turn out on lightly floured board and knead for 30 seconds. Roll ¼ inch thick. Cut with 1⅜-inch biscuit cutter. Place three rounds of dough around the sides of each 1½-inch muffin cup, bottom edges overlapping slightly. Stand a half round in center of each cup. Brush with melted butter. Place 1 teaspoon cherry preserves on each biscuit. Place muffin pan on cooky sheet. Bake at 425° (hot) for 15 to 20 minutes.

One Minute to Zero

The meadow stretches green and still;
A bluebird sings upon the hill.
The rocket ship points toward the sky,
While little "men from Mars" stand by.
Take-off time will be here soon.
Jimmy is flying to the moon!

—*Cathryn Green*

A TOUCH OF COUNTRY LIVING

Your new kitchen will reflect your individual ideas . . . when you choose a GENEVA kitchen —in long lasting steel.
Enjoy such unique features as GENEVA'S "Heirloom" Stainless Steel Sink . . . "Pop-Up" Mixer Cabinet . . . "Whisper Quiet" doors and many others. Unsurpassed quality . . . yet priced to fit your pocketbook. Visit your GENEVA dealer TODAY.

GENEVA KITCHENS ARE
Personalized for You

GENEVA KITCHENS

Geneva Modern Kitchens, Inc., Geneva, Ill., (Dept. SF-2-54)
Send for colorful new, 20 page booklet "Kitchens With Charm" illustrating many stunning Geneva Kitchen designs. Include 10c to cover cost of handling.

Name _____
Address _____
City _____ County _____ State _____

GENEVA kitchens are available in the following attractive colors: White, Sandalwood, Potter's Blue, Butter Yellow, Blossom Pink, Willow Green, or Dove Gray.

CONSTIPATED?

"I feel like a new man!"

says Paul Goodman, Sebastopol, California

"I can't afford to lose any time on the farm. But when I was constipated, I just didn't feel like working. Trouble was, no laxative I had tried gave me the relief I wanted.

"Then a friend told me about Sal Hepatica. So I took some the next time I woke up with that headachy, logy feeling due to constipation. And, let me tell you, it was just what I was looking for. Why I felt like a new man within about an hour!"

Yes, take sparkling Sal Hepatica before breakfast and feel fine again . . . usually within an hour. Or, take it in the evening one-half hour before supper and feel fine again by bedtime! Sweetens sour stomach, too! So keep Sal Hepatica handy in your medicine chest.

SAL HEPATICA®

ANTACID LAXATIVE

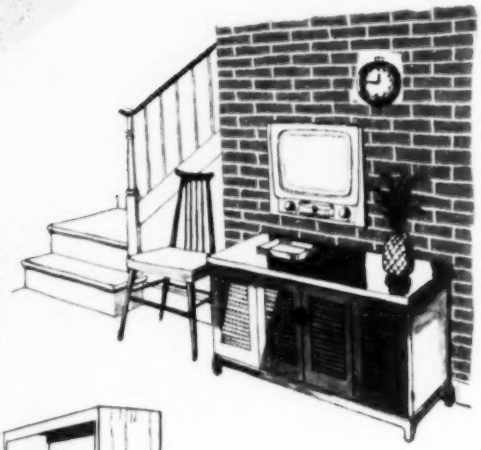
"Most any farmer will tell you"

A PRODUCT OF BRISTOL-MYERS

Tuck away your TV

TV's bulk and depth may make your set stick out like a sore thumb. It's easy to camouflage with screens or built-ins

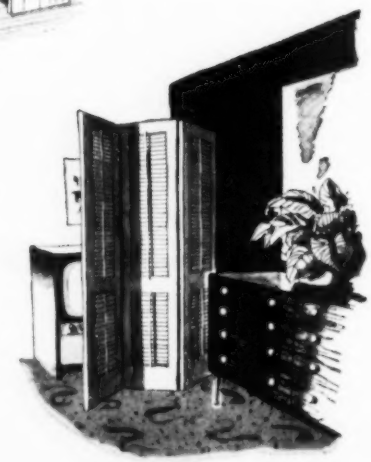
Build set into corner with bookcases or chests. Or put on top of a corner built-in. The tube in back is provided for by the depth of the corner. *Always* be sure to allow room for adequate ventilation around the set



To provide space, cut through to area under steps or into back of closet which opens into another room. The screen could be covered with a picture or a wall hanging which slides back

If you are contemplating a divider between two rooms to provide storage, plan to include your TV.

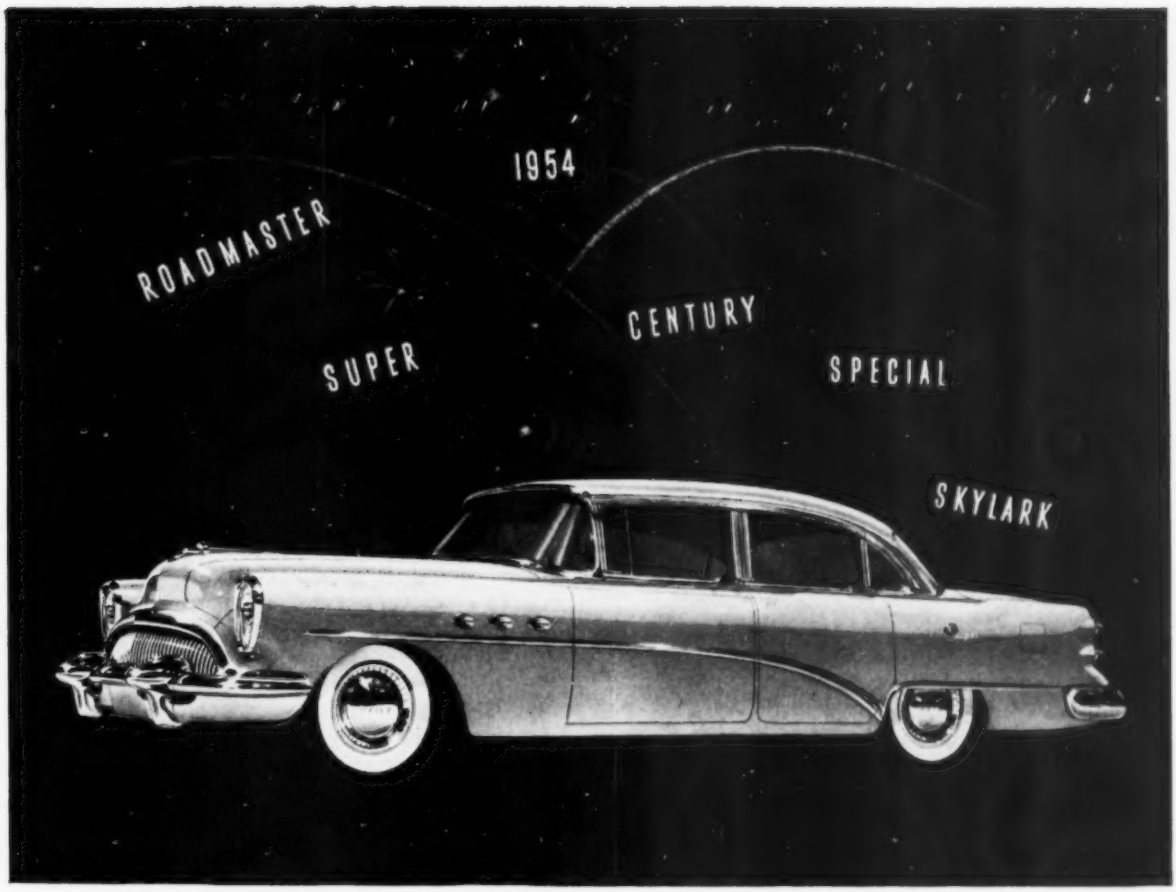
You might put it on a revolving platform so it can be seen from both sides.



Where there is little possibility of placing your television set attractively in the room, camouflage it with a good-looking screen.

Or put it on casters so it may be rolled out to the most convenient location for viewing.

Drawings: Richardson



Look what a Clean Sweep can do

ONE thing we've learned from many years of building the most popular car in America, outside the "low-price three."

When people want something new, you'd better come up with what's wanted—and pronto.

And people have clearly shown in recent months that it's time for a change in automobile styling—time for standard-production automobiles to take on the sleek, swift, low and glamorous look that has found popularity in the sports-car field.

It took a clean sweep to do it—because completely new bodies had to be built for the SPECIAL, CENTURY, SUPER, ROADMASTER and SKYLARK.

So we stepped up to the challenge—and you can see the result today in every 1954 Buick, now on display.

But there's more—much more—than a "new look" to these great automobiles.

There's brand-new power—new V8 power—in the SPECIAL.

There's increased power in the V8 engines of the SUPER, ROADMASTER and SKYLARK.

And there's a cyclonic power package in Buick's CENTURY, with its sensational horsepower per dollar *and* per pound of weight. It's the hottest performer in Buick history—and is priced substantially below the highly-popular SUPER.

There are lengthened wheelbases, a better ride, a new front suspension, new fuel economy, a 19% increase in windshield visibility, new ventilation, new wide-swinging doors, new instrument panels, and a host of other advancements that add to comfort, convenience and safety.

These new 1954 Buicks are now on display at your Buick dealer's, and we urge that you see them, try them, price them—to know what beautiful buys they are in every way.

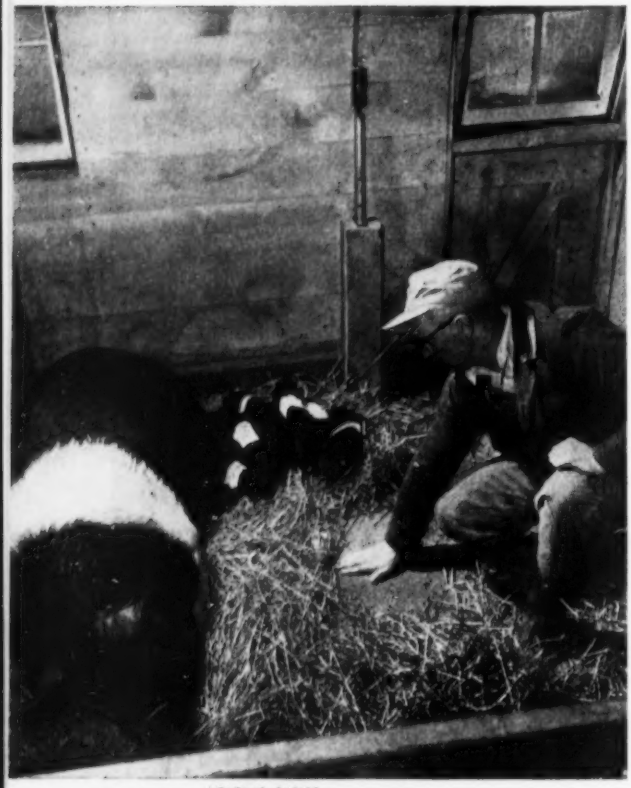
BUICK *Division of* GENERAL MOTORS

BUICK

The Beautiful Buy

WHEN BETTER AUTOMOBILES ARE BUILT BUICK WILL BUILD THEM

Six ways to heat a hoghouse



By David Flynn

When pigs start coming, you can cut losses by having their housing in good condition. Preventing chilling is especially important. How you do it depends a lot on the condition of your farrowing house and how much you want to spend on keeping it warm.

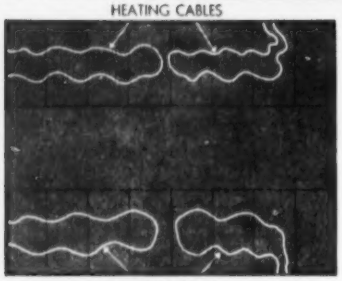
Here are several types of hoghouse heating systems. You can choose the one which best suits your farrowing setup.

Whatever type of heating you use, the *less heat* you lose from the house, the more successful you'll be in getting a draft-free farrowing-pen floor and low fuel costs. So watch the windows, walls, and roof on cold days. If moisture or frost collects on them, you're losing too much heat.

With a furnace, you can prevent condensation, and frost, too. But, it takes fuel to do it.

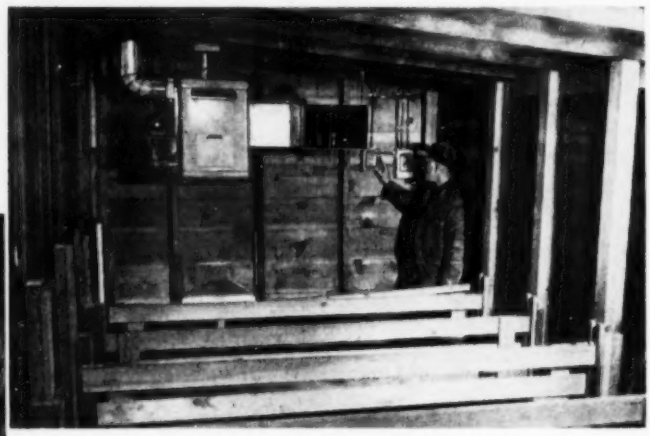
If you're cramped for ready cash, perhaps your best bet is to use the animals' own [*Turn to page 92*

HEATING CABLES



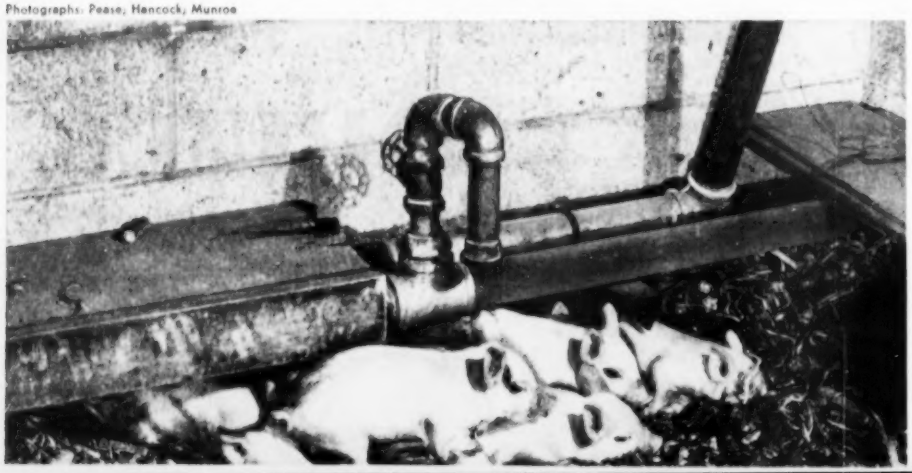
HEATING CABLES

1 500-watt cables embedded in floor heat Ray Danielson's hogs in Story County, Iowa. Heat lamps are on 1 week. Two noncable pens were wetter



2 Gas-fired unit heater blows heat to either side of partition on Howard Soorholtz farm, Marshall County, Iowa. He does not worry about sows tripping over suspended heater. Thermostat, on long wire, controls heat from either side of partition

Photographs: Pease, Hancock, Munroe



3 Radiant-heating pipes double as guardrails, J. E. Miller and Sons farm, Erie County, Ohio. Standard water pump is used to circulate warm water through 3-inch pipes at side of pens.

Water temperature is thermostatically controlled.

More hoghouse heating on pages 92 and 93

"I decided on this steel building because of its sturdy construction"

says **MAURICE O. FULLER, Chalmers, Indiana**

MR. FULLER uses his steel building primarily for machinery storage. In addition to a tractor, light trucks and trailers, he keeps some earthmoving equipment in the shed. Particularly impressed by the strength of his steel building, he states, "I decided on this steel building because of its sturdy construction.

"I am more than satisfied with the steel building I bought to house our farm equipment," says Mr. Fuller. "Our farm buildings are quite close together, and in case of fire it would be a hard job to keep them all from going. With $30,000 worth of equipment in one building, that is something to think about."

And "think about it" is just what Mr. Fuller did. The obvious solution was a fire-resistant building—a *steel* building. "I do not have insurance of any kind on my steel building, as insurance is a big item on my farm," he adds, confidently.

Like many other farmers, Mr. Fuller has recently further improved his farm by the addition of another large factory-built steel building which he is now using to house his beef cattle and swine. This is additional proof of Mr. Fuller's satisfaction with steel buildings.

Practical-minded farmers know—you get the most for your money when you invest in a factory-made steel building manufactured with long-lasting U·S·S Galvanized Steel Sheets for roofs and side walls and a U·S·S Structural Steel framework.

4-244

UNITED STATES STEEL

UNITED STATES STEEL CORPORATION produces high-quality U·S·S Galvanized Sheets and Structural Steel which our customers manufacture into durable farm buildings. Your requests for information will be forwarded to the manufacturers of these buildings, and you will hear directly from them.

SEND THIS COUPON FOR FURTHER INFORMATION

Agricultural Extension Section
United States Steel Corporation
Room 4216, 525 William Penn Place
Pittsburgh 30, Pa.

I would like additional information about steel buildings for the following:

- ☐ machinery storage
- ☐ grain storage
- ☐ hay storage
- ☐ cattle shelters
- ☐ dairy barns
- ☐ poultry houses
- ☐ other .....

Approximate size or capacity .....

☐ Please have a steel building representative call on me.
Send information to:

Name .....

Address ..... **Town** .....

County ..... **State** .....

In most soils, probably *yours,* the Ferguson "30" will turn three furrow slices easily and smoothly! We'll prove to you . . .

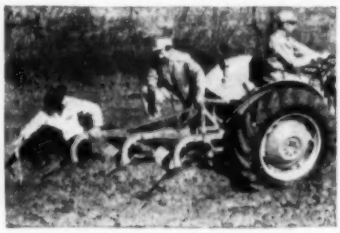
Why Ferguson can be a 3-Plow Tractor

• It's because of the Ferguson System. It makes a single unit of the plow and tractor by means of converging 3-point linkage and a built-in hydraulic controlling mechanism.

As you plow with this integrated unit, the Ferguson System actually makes use of the plow's weight, plus the weight of the soil forces on the plow. It automatically *adds* tractive weight to the tractor, as you need it—through the *hydraulic system.* On light jobs, when you don't need as much tractive weight, it's not there to waste your fuel!

That makes Ferguson different! Even though other tractors may hook up at 3 points and have some form of hydraulic system.

We can understand it if you want proof that the Ferguson has the power and weight to do your big jobs. You deserve that proof . . . and you can get it by taking advantage of the offer below.



Yours for the asking—a sample of Ferguson System farming! Print your name and address in the margin and mail this advertisement to: *Ferguson,* Racine, Wis. We'll send an expert to your farm to give you a sample of the Ferguson "30" doing *your* big jobs. Write now!

YOU'LL SEE MORE AND MORE OF THE

Ferguson "30"

SEE YOUR FERGUSON DEALER FIRST!

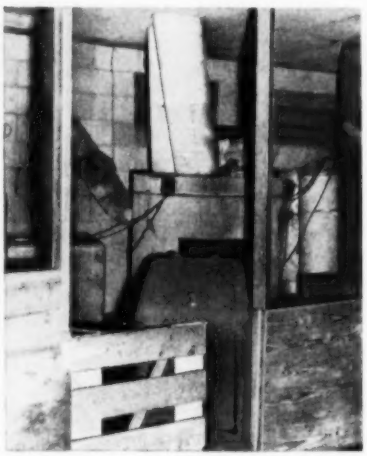
6 ways to heat a hoghouse

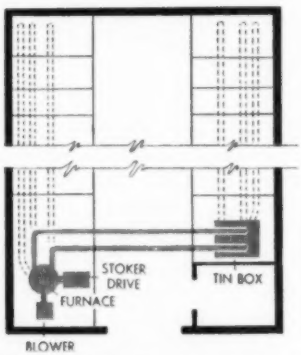
From page 90

heat for heating the house. You can do this by lowering the ceiling, insulating it and the walls, closing up cracks around doors and windows, and even providing storm sashes. That's what Roy Joslin, Cedar County, Iowa, did, and he gets along fine. Wall and ceiling surfaces are warm, and the house is easy to ventilate. There's no operating cost except for corner brooders. You might have these anyway, even with one of the more expensive heating systems.

The conclusion—you'll probably be better off to do some insulating even if you plan to use supplemental heat.

Most important in using *any* insulation material is to keep it dry. For this reason a vapor barrier is necessary between the insulation and the warm, moisture-laden air. Some kinds that you buy have a vapor barrier attached. Install it so it will be toward the warm side of the wall or ceiling. If a barrier is not attached, you can provide one made of black, *glossy* paper, or metal foil. Tack it on the studs or ceiling joists before you nail on the interior lining. Use illustration No. 6 as a help.





4. **Warm air in ducts** under pens make floor and room temperature same in this Kendall County, Illinois, hoghouse.

Operator James Hopkins, Jr. provided insulation between floor slab, foundation to slow heat loss at edges. Air, at end of ducts, enters hoghouse, warms area above pens, then returns to furnace.

5 An air duct running over farrowing pens is used by Max Bailey of Story County, Iowa for hoghouse comfort.

Chain-operated dampers, in standard warm-air diffusers, regulate the heat over individual pens. A thermostat controls oil-fired furnace. Corner brooders in pens supplement furnace heat until pigs are through critical period after farrowing.

6 Corner brooders are the only heat source besides animal heat, in farrowing house built by Roy Joslin, Cedar County, Iowa. Secret is insulated walls, ceiling.

Unless insulation has vapor barrier, provide black, *glossy* paper or metal foil *under* ceiling, wall lining to keep insulation dry. Red rosin paper is under siding.

Store anhydrous underground

A proposal to store anhydrous ammonia in abandoned mines and excavated caverns may solve one of the big problems in the anhydrous supply picture. The way it is now, no anhydrous producer has storage for more than a small fraction of his annual production. Cheap anhydrous storage near where it would be used, would help prevent seasonal shortages—and seasonal price hikes.

Carl A. Bays, Urbana, Illinois, geologist, already has worked out underground liquefied petroleum gas storage. Anhydrous storage could be developed the same way.

How Myers Power Sprayers *Pay their Way*

In Weed Control—FOR GREATER YIELDS

In wet weather or dry, you can keep stubborn weeds out of rows without cultivating. On fields, too, the new chemical weed killers can be applied with the boom-fitted Myers GP. And the same sprayer, equipped with a gun, can be used to clear out unwanted brush.

In Livestock Pest Control

Protect livestock and poultry from lice, mites, ticks and flies. The GP's automatic pressure regulator makes it easy to switch from low pressure weed spraying to the high pressure application of insecticides to animals, barns and coops.

In Orchard Disease Control

Get top-quality fruit finish through regular applications of spray materials. The Myers GP, fitted with high pressure guns, gives over-all coverage from tree-top to trunk. Just right for the spraying requirements of a moderate-sized orchard.

There's a Myers for every farm Spraying Job

MYERS POWER SPRAYERS

THE F. E. MYERS & BRO. CO.
Ashland, Ohio

MYERS

Write today for the name of your nearest Myers dealer.

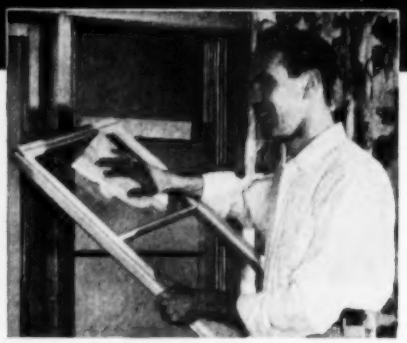
NO STRETCH!

NO CLIMB!

AT

CLEANING TIME

REMOVABLE R·O·W WOOD WINDOWS



Modern farms have modern R·O·W removable windows. Wash or paint both sides of R·O·W windows *inside* the house—without the danger of ladders or "sill-balancing." Write for our free booklet.

See your local lumber dealer or write

R.O.W. SALES CO. 1324-80 ACADEMY AVENUE • FERNDALE 20, MICHIGAN

R·O·W is the registered trade mark of the R.O.W. Sales Co.

MUSTEROLE®

BREAKS UP

CHEST COLDS'

CONGESTION in nose, throat and upper bronchial tubes!

You need more than a 'salve' to relieve coughs, sore throat and that achy feeling due to a chest cold. Rub on highly medicated, *concentrated* Musterole.

Musterole promptly relieves distress and *instantly* starts to break up congestion in nose, throat and upper bronchial tubes. It creates a wonderful *protective warmth* on chest, throat and back. You can *feel* it working to bring speedy long-lasting relief.

THE ONLY RUB made in 3 special strengths: Child's Mild for kiddies, Regular and Extra Strong Musterole.

You can *FEEL* It Work!

Quick, sew-easy fashions

From page 60

Tweed skirt, Pattern 6453. 25½-inch waist size requires 1⅞ yards of 35-inch fabric; 1⅜ yards of 45-inch fabric; 1¼ yards of 54-inch fabric. Use ⅛ yard of 35-inch preshrunk interfacing. Waist sizes 23½-24½-25½-27-28½ inches. Price, 25 cents.

Braid-trim jacket, Pattern 6281. Medium size requires 1¾ yards of 35-inch fabric; 1⅝ yards of 39-inch fabric; 1⅜ yards of 54-inch fabric. For the lining, 1¾ yards of 35-inch material is required. Use 2⅝ yards of braid for each row of trimming. Available in sizes small, medium, large. Price is 35 cents.

Sew-easy blouse, Pattern 6261. Size 16 requires 1⅜ yards of 35-inch fabric, plus ¾ yard of 35-inch contrast fabric for collar, front band, cuffs, and ½ yard organdy interfacing. Sizes 12-20. Price is 35 cents.

These Advance Patterns are available from local dealers or may be purchased direct from Successful Farming *with the handy coupon below.*

To: Successful Farming,
2002 Meredith Building,
Des Moines 3, Iowa.

We enclose cash or money order in the amount of $..... for the following Advance Patterns:

☐ 6453 Size.....
☐ 6281 Size.....
☐ 6261 Size.....

Name.....

Address.....

City.....State.....

SUCCESSFUL FARMING

"The marmapoop, a fleet-footed little beast, as you can plainly see, is a member of the rodent family."

Mrs. Jane Carlsan of New York City is a busy wife and mother, and as pretty as a picture.

"I use detergents 2500 times a year... but I'm proud of my pretty hands!"

Six years ago, pretty Jane Carlsan had never even heard of "detergents." Now she uses them (just like you) thousands of times a year!

Detergents are a blessing when they *dissolve* grease and grime. But when they dissolve away natural oils and softness from your hands, they're a problem!

But Jane's hands stay so smooth and lovely, you wouldn't believe she ever touched a dishpan or mop. How does she do it? After detergents — after any harsh soap or cleanser, Jane puts pure, white Jergens Lotion on, right away.

A few drops help *replace* necessary softening moisture. Jergens penetrates instantly, doesn't just "coat" hands. It contains two ingredients doctors use for softening. (That's one reason why it's the world's most popular hand care.)

For Jane, the best proof of Jergens Lotion care is the flattery her hands get from her husband.

Detergents are here to stay. Make sure *your* hands stay pretty, too. Keep Jergens Lotion and use it regularly after each chore. You can do a housewife's job, but it's nice to have a sweetheart's hands.

Only 10¢ to $1.00 plus tax

Use JERGENS LOTION – avoid detergent hands

the NEW FOUR for '54

Monarch

ELECTRIC–GAS–COAL-WOOD RANGES

AMERICA'S FINEST COMBINATION RANGE

coal-wood-electric baking with DIALED heat

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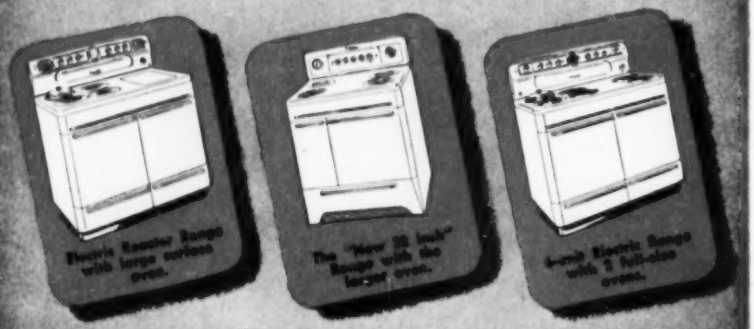


Choice of Good Cooks Since 1896

De Luxe Spanish Rice

Pennywise Chicken Pie

Timesaving main dishes . . .

Made

There's more to a can of soup than meets the eye. Of course you enjoy the convenience of heating and serving it year round. But it's equally good *and convenient* as a flavor ingredient for many main dishes and casseroles. With a few cans of soup on your emergency shelf and the staples you have on hand, you have the "makings" for lunch or supper. It's that simple. But see for yourself with these seven extra-good recipes.

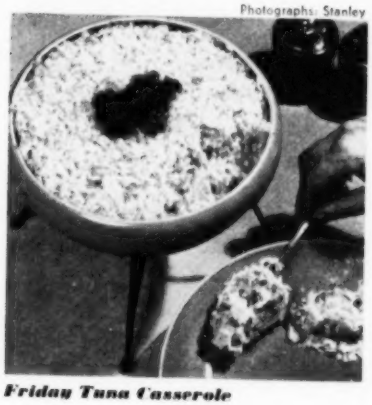
Friday Tuna Casserole
(Makes 4 to 6 servings)

- 1 can condensed cream of mushroom soup
- ½ cup milk
- 1 6½- or 7-ounce can tuna, drained
- 1¼ cups crushed potato chips
- 1 cup cooked peas, drained

Pour soup into a 1-quart casserole. Add milk and mix thoroughly. Add tuna, 1 cup potato chips, and peas; stir until blended. Sprinkle top with remaining ¼ cup potato chips. Bake at 350° (moderate) for 20 minutes.

Mushroom Rarebit

Photographs: Stanley



Friday Tuna Casserole

with soup

Tomato Beef Stew (Makes 6 servings)

- 2 tablespoons flour
- 2 teaspoons salt
- ¼ teaspoon pepper
- 2 pounds beef, cut in 1-inch cubes
- 2 tablespoons shortening
- 3 cups water
- 1 can condensed cream of tomato soup
- 6 small onions
- 6 small carrots
- 3 potatoes, quartered

Combine flour, salt, and pepper. Roll meat in flour mixture. Brown meat in shortening in heavy saucepan. Add water; cover and simmer 1½ hours, stirring occasionally. Add remaining ingredients; cook until vegetables are tender, about 30 minutes.

Mushroom Rarebit (Makes 4 servings)

- 1 can condensed cream of mushroom soup
- ¼ cup milk
- ½ cup processed cheese, grated

Combine all ingredients in top of double boiler. Heat over boiling water, stirring occasionally, until cheese is melted and mixture is smooth. Serve over toast.

More recipes on page 98

LAZY DAY

Drop Biscuits

2 cups sifted flour
2½ teaspoons Calumet Baking Powder
1 teaspoon salt
6 tablespoons shortening
⅔ to 1 cup milk*

Note: Beginner or expert, you can count on CALUMET Baking Powder to make these quick, easy drop biscuits as light as they are luscious. For dependable CALUMET lifts and lightens *both* in the mixing bowl *and* in the oven's heat. CALUMET *insures* your success in baking biscuits, cakes, muffins, waffles and other treats. So whenever the recipe calls for baking powder, remember—your best bet is CALUMET!

Method. Sift flour once, measure, add baking powder and salt, and sift again. Cut in shortening. Add milk and stir until soft dough is formed. Drop dough from teaspoon onto ungreased baking sheet. Bake in hot oven (450°F.) 12 to 15 minutes. Makes about 18 biscuits.

YOU'LL LOVE THIS CINNAMON VARIATION

Cinnamon Drop Biscuits

Use recipe above, sifting 3 tablespoons sugar and 1 teaspoon cinnamon with the dry ingredients. Reduce milk to ½ to ¾ cup.*

**Amount of milk varies with the type of flour used.*

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Made with soup

From page 97

So-good Creamed Chicken
(Makes 4 servings)

- ¼ cup chopped green pepper
- 1 tablespoon melted butter
- 1 can condensed cream of chicken soup
- ¼ cup milk
- 1 cup diced cooked chicken
- ¼ cup chopped pimiento
- 4 slices toast

Cook green pepper in butter until tender. Stir in soup, add milk. Heat, stirring constantly. Add chicken and pimiento; simmer for 10 minutes. Serve on toast.

Lima-bean Casserole (Makes 6 servings)

- 2 No. 2 cans (5 cups) green lima beans
- 1 cup cooked ham, diced
- ⅓ cup chopped green pepper
- ⅓ cup chopped onion
- 1 can condensed cream of mushroom soup
- 1 teaspoon Worcestershire sauce
- ¼ cup lima-bean liquid
- Buttered bread crumbs

Drain beans; reserve ¼ cup liquid. Mix beans, ham, green pepper, and onion. Blend soup, Worcestershire sauce with bean liquid. Pour over beans. Place in a 1½-quart casserole and top with buttered crumbs. Bake at 350° for 35 minutes.

De Luxe Spanish Rice
(Makes 4 to 6 servings)

- 6 bacon slices
- 1 cup chopped onion
- ¼ cup minced green pepper
- 2 cans condensed cream of tomato soup
- 4 whole cloves
- 1 bay leaf
- ¾ cup water
- ½ cup long-grain rice, uncooked

Cook bacon until crisp in skillet, drain, break into pieces. Drain off all but 3 tablespoons drippings from skillet. Add onion and pepper, and cook until soft. Add bacon and remaining ingredients. Cover and simmer very slowly for 45 minutes to 1 hour, stirring occasionally. Remove cloves and bay leaf before serving.

Pennywise Chicken Pie (Serves 6)

- 2 cans condensed cream of chicken soup
- 1½ cups cooked potatoes, cut in ½-inch cubes
- 1 cup cooked sliced carrots
- 1 cup cooked or canned peas
- ¼ cup chopped onion
- ⅛ teaspoon thyme
- 1 cup flour
- ½ teaspoon salt
- ⅓ cup shortening
- 3 tablespoons water

Combine soup, potatoes, carrots, peas, onion, and thyme. Pour into 1½-quart casserole. Sift together flour and salt. Cut in shortening with forks until size of small peas. Sprinkle water over mixture until moistened. Roll out and arrange over top of casserole. Trim edges to allow ½-inch overhang around edges. Fold edges under and press to sides of casserole with tines of fork. Cut slits to allow steam to escape. Bake at 425° (hot) for 25 to 30 minutes.

Mr. Laurence A. Clemens of Pound Ridge, N. Y. enjoys painting as a pastime . . . here shows two of his latest to a group of friends.

Now there are 4 times as many Americans over 65 as in 1900

MORE and more people are living to a healthy, active old age. In 1900, there were only 3 million people aged 65 or over. Today, there are 13 million.

That more people are living longer is but one of many significant changes that have come about in recent years. *In fact, our whole scale of living is changing.* We're raising larger families. We're building more homes. We're earning more money, enjoying more leisure time. As a result, we now have much more to protect.

And the life insurance business is keeping pace and is constantly growing more flexible to meet our new needs.

For example, the life insurance companies have developed a wide variety of retirement plans. Millions of people are using them to provide income when working days are over.

Of course, the main reason why people buy life insurance is to cover the expenses that usually occur at death and to provide an income for the family. Beyond that, millions of families are also using life insurance to make sure the mortgage will be paid off, or to assure funds for the children's education.

A suggestion: Have your needs or circumstances changed? Have you looked over your life insurance to see how it stacks up with your present way of living and the goals you and your family have set for yourselves?

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3. Dial-It-Right shows what Presdwood material is best suited for the job and what nails to use.

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Tips for

Rubber mats stop injuries but don't replace bedding

That's what Paul Dean, superintendent of the Cornell dairy herd, says after using two kinds of mats.

Dean says the rubber mats did make cows more comfortable and protected them from injuries. The mats helped heifers become adjusted to stanchions with less knee and hock injuries than when they weren't used. Heifers were also kept from slipping when they got up.

But Dean doesn't think mats will pay for themselves in place of bedding. He says the rear of the stanchions became wet and dirty and stayed that way. It was hard to keep cows clean on rubber mats. The cows were about as dirty as when they had been on the concrete floors without bedding.

• • • •

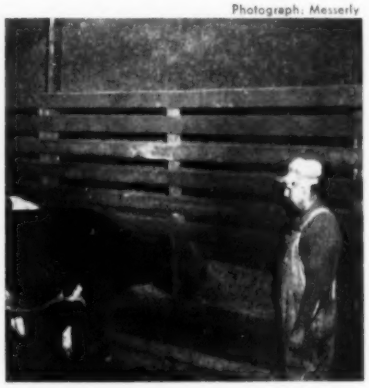
Brings cows to hay with this self-feeder

Sam Moegler, Kossuth County, Iowa, doesn't like to throw hay to the cows. So he lets them eat right from the mow.

Moegler sets this 30-foot self-feeder (below) made of scrap 2x6 lumber, right along one side of the haymow. Then, as cows eat, he moves the self-feeder into the hay with a tractor-manure loader. This way, he doesn't need to carry hay—he pushes the feeder to the hay.

The hay is stored in one end of a 52x60-foot loafing parlor. The mow holds about 60 tons of hay.

Photograph: Messerly



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Protein can be lower in dairy grains

Two years of testing at the Bureau of Dairy Industry pushes out the window the old idea that cows need lots of protein to make milk.

In these tests, cows receiving a grain

dairymen

ration with only about 11 percent protein gave just as much milk and butterfat as cows getting 15 to 19 percent protein. Along with the grain rations, timothy and alfalfa hays were fed.

The experiments indicate the *amount* of feed—rather than the percent of protein—is most important in feeding dairy cows. A 11.8-percent grain ration would contain 500 pounds ground corn, 500 pounds ground oats, 200 pounds wheat bran, 10 pounds salt, and 10 pounds bonemeal.

• • • •

Turn colostrum to cash by feeding to calves

Don't throw away extra colostrum if you've got older calves. According to Michigan State College dairy experts, colostrum won't scour older calves if limited to one-third the amount of milk fed at one feeding.

Colostrum is rich in vitamin A and antibodies that protect calves from infection. Your older calves can be a good market for the first milk that is often thrown away or given to hogs.

• • • •

Will roughage be short? Here's how to stretch it

Because of the 1953 summer drouth, good roughage will be both scarce and expensive in some areas.

If this is your problem, follow the suggestion of E. T. Oleski, dairy specialist at Rutgers University. He recommends buying Number 2 hay, and feeding it once a day with better quality hay. Sprinkling each feeding with 2 pounds of molasses per cow will help make the low-quality hay tastier.

When it looks like you'll run short of silage, says Oleski, buying beet or citrus pulp may help. Soaked pulp can be fed to supplement silage. Two pounds of pulp have about the same feed value as one pound of corn silage.

• • • •

Get heifers in mood to be better milkers

A month before a heifer is due to freshen, put her in with the milking herd. Jim Hays, extension dairyman at Michigan State College, says she'll be a better cow later.

Hays suggests treating a heifer just like the milking cows to get her used to stanchions. Brushing and massaging her udder and teats a few minutes a day will keep her from being nervous the first time a machine is put on.

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QUICK-FLUSHING. Feed shutters open fully for quick cleaning and return to original setting at touch of lever, without stopping machine.

POSITIVE FEED CONTROL. Uniform delivery from feed openings assured by flexible spring brushes mounted on brush blades.

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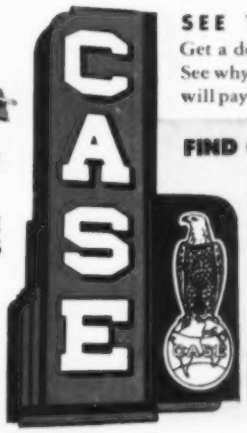

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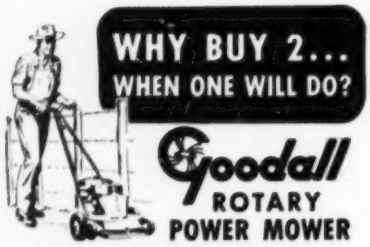

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How to buy and sell a farm—taxwise

*By Jack R. Miller**

Today it isn't enough to simply agree on price, terms, and possession date in buying or selling a farm. What with the tax bite chewing up part of the sale price, the tax angles have become more and more important.

But even the latest tax laws leave you several ways to save money in the transaction. However, you can't just forget about tax savings until the income-tax-return season rolls around, almost a year after possession date, and get the greatest saving. You need to plan from the start—this story tells you how.

Buying a farm. The main thing to consider, when you buy a farm, is to put the right values on the items that can be depreciated later on your income tax. This means figuring what part of the purchase price was paid for buildings, wells, fences, tenant house, and so on. Then you have a base for claiming the most depreciation possible on these items on your income-tax return.

The job of allocating the purchase price among the various parts of the farm—for land and items that can be depreciated—is not one for you or your tax-return maker. *It's a job for a real-estate expert.* A local banker or a real-estate broker, by virtue of his experience, can usually qualify as an "expert." The reason for getting an expert is that you want someone whose opinion can withstand any onslaughts by an internal revenue agent later on. Here's what to do:

You should request your expert to make a personal inspection of the farm and prepare an ALLOCATION REPORT. On the report he should list the *estimated life of each item that can be depreciated, as well as the amount allocated to each item or part of the farm.* This report is your basis for depreciation you will claim on your income-tax returns the next few years.

You should pay a fee for the service not only for the expert's time in preparing the report, but to keep a revenue agent from *claiming* the report was not prepared in a regular, businesslike way.

The report itself can take any of a number of forms, but should *always* contain information of the type shown in the following example:

Farm Price Allocation Report

This report concerns the following farm located in _____ County. (Give a legal description of the farm.)

Based upon a personal inspection of the property, it is my opinion that a purchase price in the amount of $..... is fairly allocable to the various assets of the farm as follows:

Item	Portion of price allocated	Estimated life
____ acres of land	_____	
house	_____	_____
barn	_____	_____
machine shed	_____	_____
silo	_____	_____
crib No. 1 (wood)	_____	_____
crib No. 2 (steel)	_____	_____
hoghouse	_____	_____
chickenhouse	_____	_____
____rods of fence	_____	_____
well	_____	_____

Allocation has been made on the basis of relative values of all of the above, taking into consideration the present condition, quality, and prices being paid for improved and unimproved land in the vicinity of this farm.

Very truly yours,
(Signed by your expert)

You cannot take a depreciation deduction on the house if you and your family occupy it—unless hired help is roomed in it, too. However, if the house is turned over to a tenant later on, it becomes available for depreciation. So an allocation to the house should be made, along with its estimated life.

Here's another tax pointer to keep in mind in buying a farm. If property taxes for the current year already have been assessed against the farm, the buyer should arrange to have the seller pay them. That's because, under the tax law, the buyer will not be permitted to deduct them as an expense when he pays his income tax for that year's income. *The tax law says that they are the seller's taxes and only the seller can take the deduction!*

Selling a farm. If you are planning to sell a farm, one of your major worries will be over the amount of income tax you will have to pay on the profit.

[*Turn to page 104*

**Mr. Miller is one of the foremost experts on farm taxation in the United States. He was formerly an attorney in the Office of the Chief Counsel of the Internal Revenue Service. He also is past chairman of the American Bar Association's Committee on Tax Problems of Farmers.*

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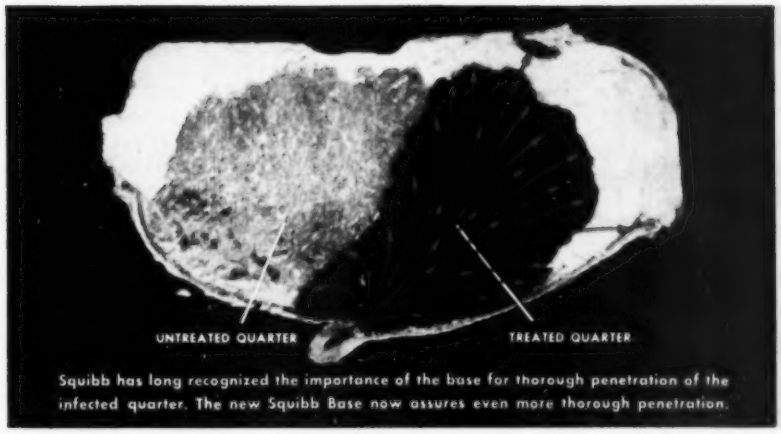

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The new Squibb Base provides for more effective concentrations of these antibiotics reaching the infected tissues, because it releases the antibiotics more rapidly and completely.

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*Names on request from this magazine

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How to buy and sell a farm—taxwise

From page 102

If you have owned the farm for more than 6 months, the profit will be long-term capital gain, which means only half of your profit is taxable. But even that may be large enough to pose an income-tax problem.

Taxpayers in high tax brackets often make such sales on an *installment basis.* They take up to, but *no more than 30 percent* of the sale price in the year of sale and spread the balance over several years. (The law says you can't take *more* than 30 percent of the total selling price the first year and still call it an installment sale.) That way they pay taxes on only a *part* of the profit each year—instead of all in one year at what may be a high tax rate. They can do this since *the profit is spread over the years in proportion to the size of the payments received.* Only the part of the profit you get each year will be reported.

The 30-percent limitation. This is a strict one, and consequently you must be clear on what is meant by the "year of sale." The word "sale" means that *either* title or possession has been transferred. *A mere down payment at the time of signing a contract to purchase is not a payment on a "sale," and need not be reported until the year in which the title or possession is transferred to the buyer.* Generally, such a down payment is *added* to the payments in the "year of sale" to determine whether the 30-percent rule has been violated.

Here's another point you should watch if you sell a farm: Possession is usually transferred on March 1 of the year after the purchase contract is signed. But the tax law now makes it worthwhile to consider transferring possession *before the crops are harvested*—if the buyer will pay you a fair price for the crops. If you have owned your farm for more than 6 months, the profit from its sale will be long-term capital gain. *Also, any profit that comes from unharvested crops will be treated as long-term capital gain.* The tax-saving possibilities will appear from the following example:

Mr. Brown has an unharvested crop of corn, which will bring an estimated $9,000 when harvested and sold. Assuming he is in a 30-percent tax bracket, his tax on the crop would be $2,700—leaving him take-home cash of $6,300.

However, the purchaser of his farm will pay him $8,000 for the crop in its present condition. That way only half of this price—or $4,000—will be subject to tax at 30 percent. The tax comes to $1,200 and leaves him take-home cash of $6,800. Thus, by selling his farm with the unharvested crops, Mr. Brown will save $500.

The law says that expenses of raising a crop *sold with the land* must be figured as part of the selling price of the farm. This, of course, will reduce the operating expenses for the year. However, if farm income from other sources hasn't been great, such a reduction in expenses will make little tax difference. Also, keep in

mind that figuring the expenses as part of the farm sale price *will decrease the long-term capital gain.*

Sell and buy, same year. If you sell one farm and buy another the same year, you should watch this point. As we pointed out, if you've owned the farm you sell for more than 6 months you can claim capital gains on it. If you buy another farm that year, the part of the profit that is allocated to the *farmhouse*, and is *reinvested* in the *house* on the new farm, is not taxable.

The mere fact that all of the proceeds from the sale of the first farm are reinvested in another farm won't relieve you from tax on the profit allocable to items other than the farmhouse. **END**

Uses handy lambing pens

Lambing is set up on a production-line basis on the Kenneth Wagner farm in Johnson County, Iowa.

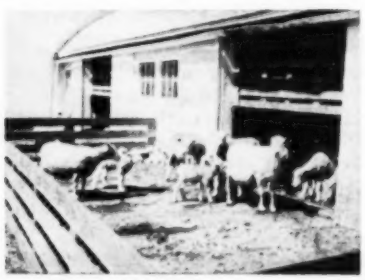
Wagner's sheep barn is built without solid partitions so gates and panels can be arranged as needed.

Half the barn is used for lambing pens. The other half is used as holding pens for older lambs and ewes. Holding pens are separated by canvas partitions to prevent drafts.

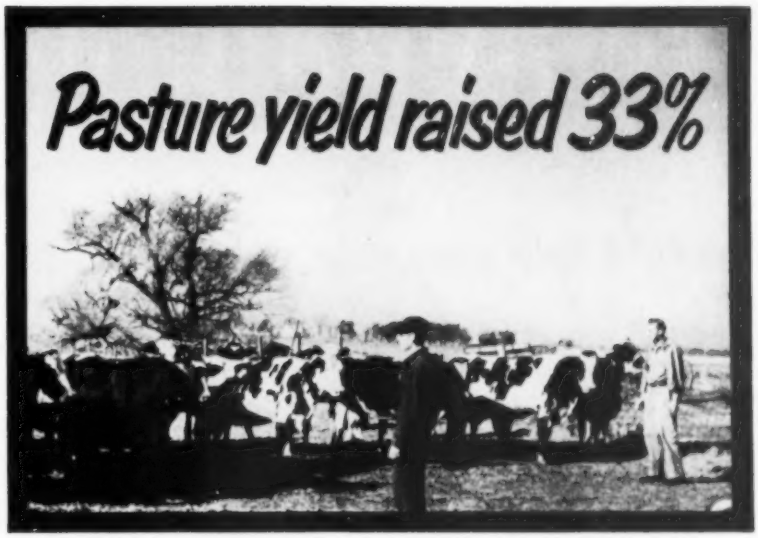
Hayracks are spotted in the center of the lambing section, and individual pens are set up on either side of the racks. Heavy paper sacks nailed to sides of the end pens prevent drafts.—*A.M.W., Iowa.*

Photographs: Wettach

Row of hayracks extends through center of barn. Individual pens are arranged by fastening together three panels, 6½' long



Concrete apron helps keep pen sanitary. Gates in doorway are hung on hooks during the day—dropped in place at night



with high-nitrogen fertilizer

on the farm of Gale and Clarence Chase, Sun Prairie, Wisconsin

BROTHERS Gale and Clarence Chase who operate a 200-acre dairy farm were more than satisfied with the results of their 10-10-10 fertilizing program last year. They find that they can now carry 38 cows on pasturage which could carry only 30 before they tried the 10-10-10. Their fertilizing program, patterned after pasture improvement tests sponsored by the University of Wisconsin, called for the application of 500 pounds of 10-10-10 per acre on their pastures.

The Chase brothers report that their yield increase last year was 2905 pounds of dry matter per acre—an increase of 33% over previous years' yields, in spite of the harmful drought during the 1953 growing season.

Many noted agronomists all over the country have emphasized the importance of nitrogen in restoring dried out pastures. They have urged farmers to get this nitrogen on as early as possible so that growth can begin earlier. This will help cut feed costs by getting the cattle on pasture two to three weeks earlier this spring.

Get your nitrogen from U·S·S Ammonium Sulphate

U·S·S Ammonium Sulphate is a top quality, dependable source of nitrogen in mixed fertilizers. After you've tried it, you'll agree with Gale and Clarence Chase who hadn't used it before, but now "highly recommend the use of Ammonium Sulphate."

They particularly liked how easy it was to handle 10-10-10 that contained U·S·S Ammonium Sulphate . . . it doesn't clog drills and other distributing equipment and it is less corrosive than similar materials. It won't set up in storage or leach out during the spring rains, yet it is available when the plants need it.

Contact your fertilizer dealer right away and place your order for a quality 8-8-8 or 10-10-10 fertilizer . . . one that gets the major part of its nitrogen content from U·S·S Ammonium Sulphate.

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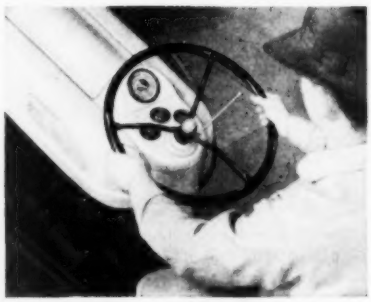

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Only the Ford Tractor has the Proof-Meter. It is five useful instruments in one—shows hours worked, travel speed, belt and PTO speeds, and engine r.p.m. Helps you get top performance from your Ford Tractor.

Ford TRACTOR

Proof is Yours for the Asking. Let your nearby Ford Tractor Dealer show you the facts about power at low cost. See how easily this tractor, and the Dearborn Implements designed to work with it, handle the work you want done. See how quickly you can change from implement to implement and job to job, how much you can get done and, when you figure it all out, how much less you pay. We think you'll agree that today's Ford Tractor is your best buy in power and all around value.

Dearborn EQUIPMENT

POWER AT LOW COST

Lower first cost, proved operating economy and higher resale value make it your best power buy

When you buy a tractor, you are making an investment in *power*. You want power that can be easily and quickly put to work anywhere on your farm. You want *enough* power, but *not* wasteful surplus power.

Also, if your tractor is going to make money for you, you want that power *at low cost*. And this, along with many other advantages, is what you get in today's Ford Tractor.

A Low Priced Tractor with Plenty of Power

When you buy a Ford Tractor, you can see the results of the Ford Motor Company's resources, mass production efficiency and engineering skill in the lower price you pay. You'll also see the results of Ford's advanced engineering and design leadership in this bigger, heavier, more powerful Ford Tractor, with its many great value and performance features.

You Get Power and Economy, Too

You'll soon find that Ford's newly designed big bore, low friction engine gives you the power you need with remarkable economy in fuel, oil and upkeep. So, along with lower first cost, you get lower operating cost.

When you finally come to sell your tractor, you'll discover still another reason why a Ford Tractor is your best investment in lower cost power. That's because a Ford Tractor, besides having lower first cost, brings more at trade-in time.

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You can save hours of back-breaking work with the Ford Tractor and Dearborn Equipment. A wide choice of front and rear-mounted Dearborn Loaders is available—all power-matched to the Ford Tractor.

BUILD PONDS, FILL GULLIES
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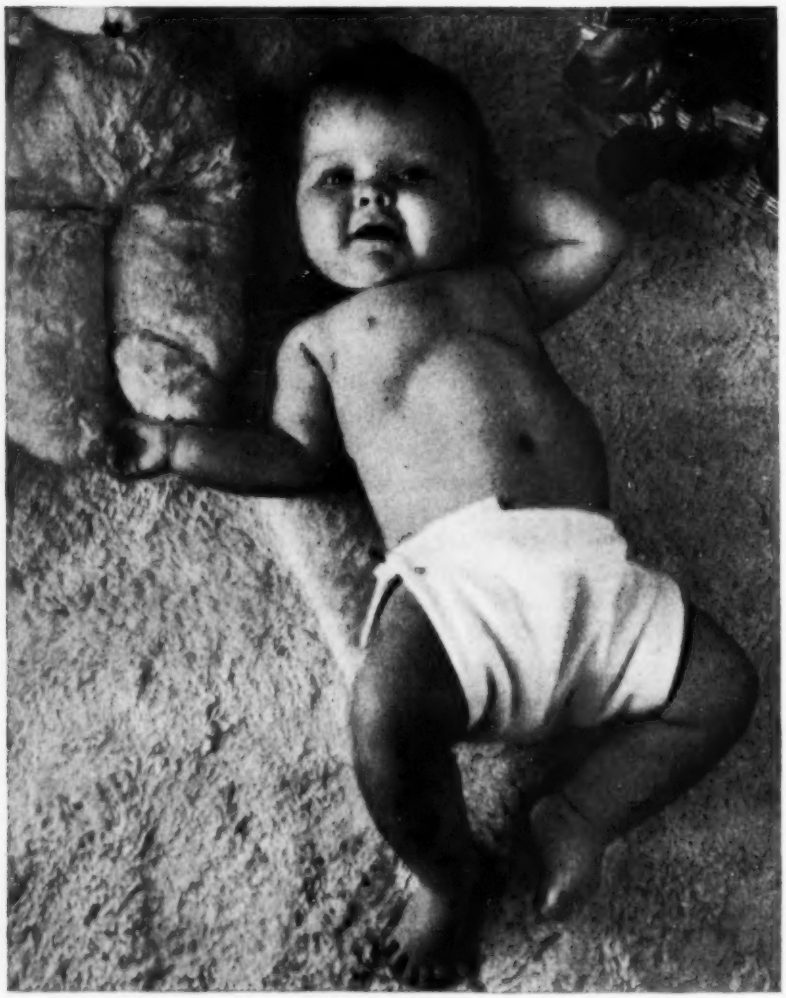
The difference between this...

and this...



is often this...

You'll want it!

From page 55

Hardwood slab in counter is ideal for cutting jobs like preparing chickens for the freezer. Left open underneath, this is a suitable place to sit down for many jobs

The freezer was given a logical spot near the kitchen door, with a handy table beside it. Then storage closets were put next to the freezer, giving it a built-in look.

To take advantage of the colorful hillside view, the space under the window was left free for ironing.

The color plan was built from the floor up. All back-door traffic enters the house through this room, so a rich, red-brown clay tile was the choice—most compatible with dust and mud. Wall and counter tile is a lovely, but practical, nutmeg color.

A few coats of washable-blue paint gave a sparkling clean look to the room. And some leftover blue paint transformed a pair of broom handles into curtain rods. (We tell you how on page 109.) Finally, durable denim curtains at the windows, and painted pie tins on the wall finished the room to a "T."

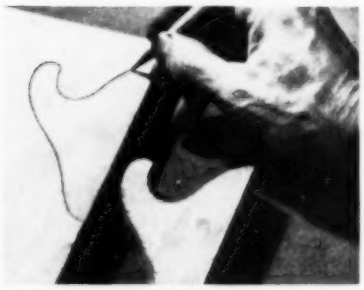
The Wagners got what they wanted—a utility room geared to farm living. Bet you'll want it, too!

Necessary on every farm—a private place for smelly workclothes and outdoor wraps. This one is deep enough for bulky coats, has a slotted shelf to help dry wet boots. Separate space is for ironing board, mops

How to make a

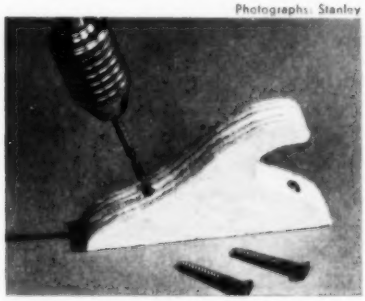
Broomstick curtain rod

As seen in the utility room, page 54



Draw a pattern for cutting brackets. Diameter of broomstick is guide to size of bracket. Saw brackets out of plywood

Photographs: Stanley



Drill holes for screws in top and bottom of each bracket—position of holes depends partly on length screws to be used

Saw grooves part way through broomstick at each end, after it has been cut to fit window. Whittle the ends to fit insulator

Porcelain insulators (type used for outdoor wiring) make finials for ends of rod. Slit the end of the rod, drive in a screw

CLOROX® makes linens *more than white*... it makes them *sanitary*, too!

In laundering, you need health protection as well as whiteness. Clorox provides both. It not only makes linens snowy-white...it makes them hygienically clean. No other home laundering product equals Clorox in germ-killing efficiency!

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In routine cleaning of bathrooms (and kitchens) Clorox beautifies by removing ugly stains that resist ordinary cleaning. Clorox is also a deodorizer; and most important, it's a safe, non-poisonous disinfectant. See label directions for the many ways Clorox, America's favorite, can save you work, protect your health!

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You, too, will find the simplified, lower cost Jayhawk the best loader value of all. It mounts quickly, works under lowest ceilings, handles heaviest loads easily. Automatic load leveler standard equipment. Choice of 48" scoop with removable dirt plate or long tined manure fork. Hydraulic scoop control available. You'll be days and dollars ahead if you get a Jayhawk . . . now.

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This seed check list tells

How to make sense out of a seed tag

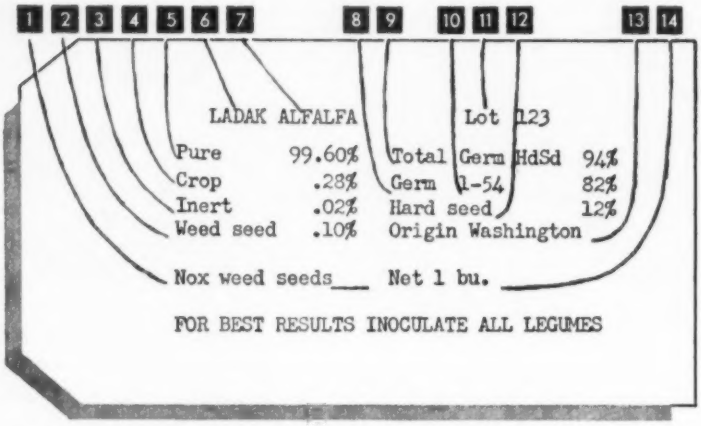
By Nat Resieg

Why be satisfied with seed that "just passed" the minimum standards in your state?

Below are higher standards any good seedsman can meet. Shop until you find crop seed that meets the check list below.

1 Noxious weed seeds. Don't buy seed if *any* primary or secondary noxious weed seeds are named on the tag (noxious weeds vary by state).

14 facts are listed on legume tags—check all when buying



2 Weed seeds. Buy only if there is .25 percent or less of these common weed seeds in legumes, grasses. In small grain this figure should be .10 or less. This figure depends on the type weed.

3 Inert matter. This figure should be .25 percent or less. Exception: Bromegrass is hard to clean—may have up to 15 percent inert, still be good seed. Inert is not serious—only dirt, stems, hulls, cracked seed.

4 Crop seed. If this is over .25 percent, ask your dealer what crop is mixed in. If over 5 percent is another crop, name of this crop must be on tag.

5 Purity. Buy only seed over 99 percent. This figure represents *actual purity of the crop* you are buying, but may include a small amount of another variety. Check with dealer about this before buying.

6 Variety. Buy only if variety is recommended by county agent or state college. Know which varieties are adapted to your farm before buying.

7 Crop. Checking a bag may save you a trip back to town in case you accidentally get clover instead of alfalfa.

8 Germination. Buy legumes only if this is 90 percent or higher—minus the hard-seed percentage. In the case of grass, 85 percent. Insist on 90 percent or higher in small grains.

9 Total germination and hard seed. Don't buy unless this is at least 90 percent for legumes. Small grains and grasses do not have hard seed.

10 Date of germination test. Do not buy seed if it were tested more than nine months ago. This is your only clue to the age of the seed in the bag.

11 Lot number. File all your seed tags until the crop is harvested. If the seed doesn't turn out well, you can check back through your dealer if you know the lot number.

12 Hard seed. You want up to 25 percent in most legumes. About half of those listed as "hard seed" will grow in the field immediately. Others sprout later—insure against a stand failure if earlier plants died.

13 Origin. When you buy legumes from the West or Southwest, insist on certified. Common alfalfa, for example, from the Southwest, winterkills in the North Central states. Buy only alfalfa with a verification tag attached to bag.

14 Net contents. Make certain you get what you paid for. Check the pounds.

DODGE ROYAL V-8 TWO-DOOR SPORT COUPE IN WILLOW AND BERKSHIRE GREEN

Elegance ... *with the greatest performance record of any American car!*

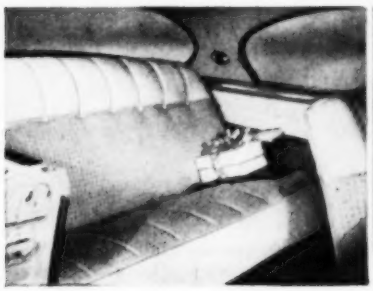
In the clean-lined elegance of this glamorous style leader, there is a thrilling promise of flashing performance. You sense it in the eager sweep of its greater length, the bold distinction of gleaming chrome, the daring beauty of color-harmonized interiors with breath-taking Jacquard fabrics that rival the luxury of the most costly cars. The promise of action is there.

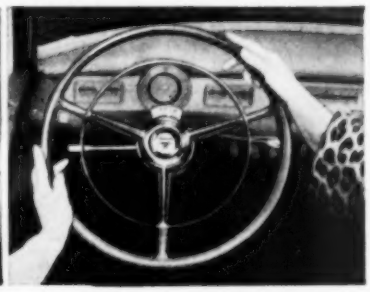
Then you take the wheel, and the promise is fulfilled. For this is the new '54 Dodge that shattered 196 official AAA records for performance, stamina and endurance on the Bonneville Salt Flats . . . topped all 8's in the Mobilgas Economy Run. Nothing on the road today, can match the *proved performance* and *proved economy* of the 150 h.p. Dodge Red Ram V-8 engine.

3 GREAT SERIES: ROYAL V-8—CORONET V-8 AND 6—MEADOWBROOK V-8 AND 6

Compare the matchless luxury of exquisite Jacquard fabrics—another "first" in its field for the '54 Dodge.

Fully-automatic PowerFlite transmission and full-time Power Steering —optional at moderate extra cost.





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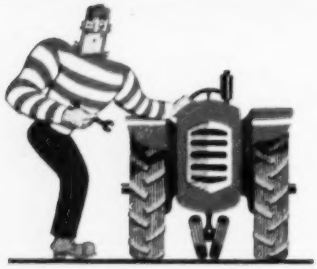
NEW '54 **DODGE**

Specifications, equipment and prices subject to change without notice.

Save up to 67% on tractor repairs!



NOW HASTINGS TRACTOR CHROME SETS MAKE IT PRACTICAL (AND ECONOMICAL) TO RE-RING BEFORE YOU NEED A COMPLETE OVERHAUL!

These amazing new piston rings give many times the life of plain rings . . . hundreds of extra hours of service . . . top engine performance and fuel economy for any tractor.

They prevent oil-pumping—and power drop-offs—between overhauls. Many tractor owners and repairmen report *two* successful Hastings re-ring jobs before re-sleeving the cylinders.

This means you save money—big money—up to 67%. A simple ring installation costs only about one-third as much as a major overhaul with re-sleeving or re-boring operations.

So see your tractor repairman now. Install Hastings Chrome Rings to keep costs down, to keep power up. (They're Motor Engineered for *replacement* service, for cars, trucks, and tractors, too!)

FREE FARM RECORD BOOK!

Helps you keep an orderly report of all your expenses, helps you budget, holds all your business records for an entire year, gives helpful tips on the care of your tractor. Write Hastings Manufacturing Co., Hastings, Mich. (Hastings Ltd., Toronto), Dept. SF.

HASTINGS STEEL-VENT PISTON RINGS

TOUGH *on oil-pumping*
GENTLE *on cylinder walls*

Easy way to load machinery

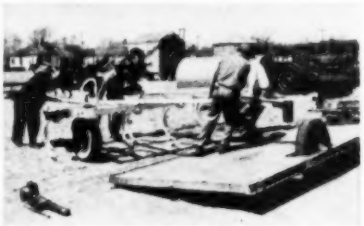
You don't need a boom to load machinery on this handy trailer.

Maurice Downing, Deerfield, Kansas, built this rig so the wheels can be removed in a jiffy. Then the bed is dropped to the ground, and machinery is rolled onto the bed.

The bed is 8′x18′, has 3″ angle iron for cross members, and is covered with ¼″ boiler plate.—*J. C., Kansas.*

Photographs: Curtis

Removable wheels are fastened to U-shaped supports. A ¾″ pin holds support to trailer bed. Hydraulic jack is used to lift bed when changing wheels for loading



Rolling machinery onto trailer bed is easy when wheel is removed and the bed is dropped to ground. Wheels can be placed in wells, or elsewhere alongside of the bed

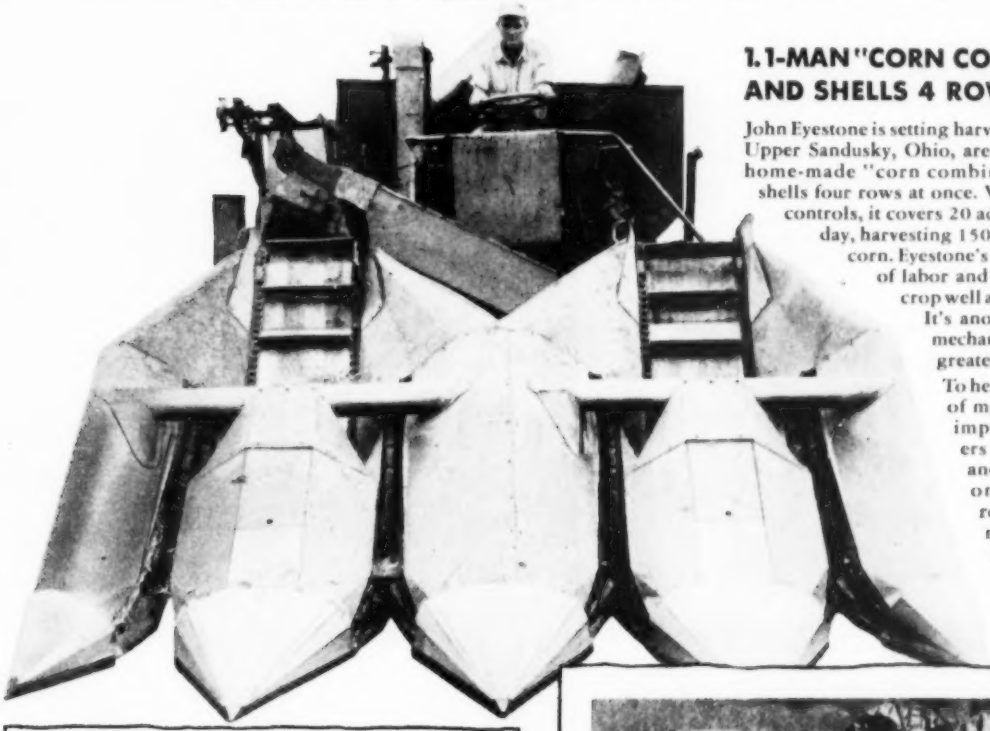
Folding gate

Photograph: Riggle

Cramped quarters in his feeding barn made it necessary for Otto Gade, Seward County, Nebraska, to build a 2-section gate hinged in the center. There wasn't room for a swinging gate, and overhead track prevented using gate hung on rollers

Making the most of MECHANIZED FARMING

BETTER MACHINES MEAN BETTER FARMING · TIMKEN BEARINGS MEAN BETTER MACHINES



1. 1-MAN "CORN COMBINE" PICKS AND SHELLS 4 ROWS AT A TIME

John Eyestone is setting harvesting records in the Upper Sandusky, Ohio, area with his amazing, home-made "corn combine" that picks and shells four rows at once. With one man at the controls, it covers 20 acres in an eight hour day, harvesting 1500 to 2000 bushels of corn. Eyestone's machine saves hours of labor and lets him harvest his crop well ahead of bad weather. It's another example of how mechanized farming creates greater profits for farmers.

To help you make the most of mechanized farming, implement manufacturers are mounting more and more moving parts on Timken® tapered roller bearings. That means more time for farming—less time for lubrication, maintenance and repairs.

2. HELPING IMPLEMENT MAKERS SAVE YOU BREAKDOWNS

When a leading tractor manufacturer was plagued by axle breakdowns, our physical laboratory helped solve his problem by developing a method for cold rolling tractor axles. This kind of creative engineering is typical of the way Timken Company engineers work with manufacturers to give you better, longer-lasting implements and tractors.

3. PORTABLE WELDER CUTS REPAIR TIME

To quickly repair equipment anywhere, Paul Less, Salem, Ohio, made a portable welder by mounting a generator on a rear auto chassis with the frame end tapered to attach to the tractor drawbar. The generator drive shaft fits into the tractor's power take-off fitting.

$10 FOR IDEAS: We'll pay $10.00 for each mechanized farming idea that we accept and publish. Send photo of implement and description to the Timken Company, Dept. SF-2, Canton 6, Ohio.

Tapered Roller
TIMKEN BEARING EQUIPPED

This symbol on a product means its bearings are the best. Look for it when you buy.

NOT JUST A BALL ○ NOT JUST A ROLLER ⬭ THE TIMKEN TAPERED ROLLER ⬭ BEARING TAKES RADIAL AND THRUST LOADS OR ANY COMBINATION

4. WHERE TO LOOK FOR TOP VALUE

To find top value, look for the "Timken Bearing Equipped" label on every implement and tractor you buy. Timken bearings practically eliminate friction, keep moving parts in proper alignment, and give you longer implement life with a minimum of maintenance. The Timken Roller Bearing Company, Canton 6, Ohio. Cable address: "TIMROSCO".

Poor results from nitrogen? Corn go down? Too many nubbins? Diseases hit you hard? This may be the reason—and here's what you can do about it

"Clogged pipes" cost you corn

By Z. H. Beers
Technical assistance: Dr. G. N. Hoffer

The lines and stained areas you see in the corn plants on the opposite page are actually a network of pipes—the "plumbing system" of corn.

Why is this important?

Plugged, this system of pipes can steal corn right from under your nose, even though you figure everything is right for a good crop. Fertilize one way and you can bring on this plugging condition—fertilize another, and you'll get the yields you expect.

Here's what you need to know to prevent it.

Pipes run from the lowest tips of corn rootlets, all the way to the top of the tassel. They carry water and minerals to leaves and return products manufactured in the leaves to the point of use or storage in the plant. The joints, or nodes, are the crossroads in this system. Part of their job is to filter out harmful materials that may get into the plant.

These node tissues usually function properly. But when potash is low compared to available nitrogen, they lose their ability to get rid of excesses of certain metals including iron and aluminum. This causes the tubes to plug. It's sort of a hardening of the arteries. The vital foods manufactured in the leaves do not get to either the roots or to the developing kernels. Stunted roots let the plants fall over; the pipes to the developing ears clog up; and accumulation of foods in the leaves and stalks makes them sitting ducks to diseases. On every count, *you* are the loser!

What can you do? Nothing when you see it, but you can *prevent* it. Lime your soils so the iron, aluminum, and manganese will be partly tied up in compounds that will not enter the roots. The amounts of these metals that will go into the plant are much greater in acid soils than in soils limed to near neutral.

Second—and most important—be sure your corn has enough potash to balance out the nitrogen available.

How can you be sure of this? Nothing beats a soil test. With a test, you'll know exactly where you stand on potash. If tissue tests early in the season show low potash, you may still have time to side-dress 100 to 200 pounds of muriate of potash (0-0-60).

Perhaps you have noticed scorched leaf edges on your corn. If so, that's a sign of low potash and you'll be ahead to test the soil.

Or if you've grown alfalfa often on a field, it's wise to take a soil test. Alfalfa is a heavy user of potash and phosphorus. About 400 pounds of 0-10-30 is probably needed where corn follows alfalfa that was not top-dressed.

By all means check your potash if you're using *extra* nitrogen—either plowed down or side-dressed.

Some farmers have used regular starter fertilizer at planting and then applied 100 pounds of actual nitrogen as a side-dressing. They did not get the results they wanted. Tissue tests and the "iron test" on the nodes of the corn showed the corn was low in potash and the pipes were plugged.

Naturally there are many other causes of poor yields and down corn. Some you can do something about, others are out of your hands. Clogged pipes is one you can prevent—by the right use of lime, potash, and nitrogen.

Pipes build kernels—a break below cuts off normal filling of ear

Stalk is a bundle of hoses—minerals, water go up, leaf products are transported down

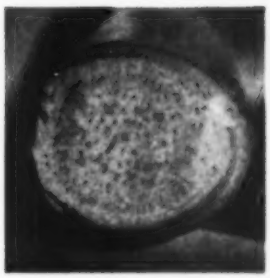
Busy "switch yard" at ear, stalk joint. Node here works overtime

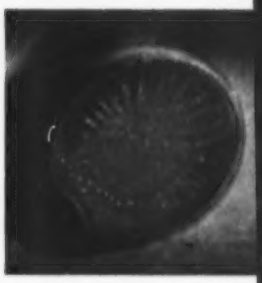
Here's a healthy corn plant in the early milk stage. All pipes and nodes have turned brownish orange when treated with nitric acid. This color indicates protein—key material in the plumbing system of corn.

Low soil potash in relation to nitrogen results in iron and other metals damaging and plugging this protein system at the nodes. A frequent cause is heavy nitrogen application overbalancing potash in the soil—is one reason nitrogen sometimes fails to give yield increases.

Node is filter unit—is self-cleaning in a well-fed corn plant

Roots lack food from the leaves if clogged above. One cause of down corn



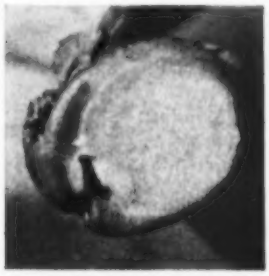


LOW POTASH

Dark spots on cut stalk at left are iron plugs in pipes. Same stalk treated with acid shows that protein, sugars can't reach ear. Results in an early death (top picture)

ENOUGH POTASH

No iron plugs appeared on this cut stalk when treated same as left above. Notice, too, that acid test shows protein and sugar not concentrating in healthy stalk



Photographs: Frink, Monkmeyer, Steele, Beers, Hopkins

New Detergent Funjol Dissolves Dirt and Slime As It Kills Germs!

Think of it! Never again need you worry about unpleasant scum and slime in poultry watering fountains. Just a teaspoon of FUNJOL makes a whole quart of drinking water almost as pure and sweet as rain — *and keeps it that way!* That's because new detergent FUNJOL actually dissolves dirt and scum . . . destroys the fungus that causes slime . . . even makes hard water soft! Yes . . . today's new FUNJOL is a powerful detergent as well as a powerful antiseptic . . . keeps water fountains *clean* as well as *safe!*

No Water Fountains to Clean!

Just "swish" the water around . . . toss it out . . . fountains are fresh and clean, even without rinsing. New detergent FUNJOL keeps water fountains as sparkling clean as your own table tumblers!

Deadly Bacteria Curl Up and Die when Funjol Hits 'Em!

Laboratory tests prove that FUNJOL actually *kills on contact* even such deadly germs as fowl cholera, pullorum, and many strains of fowl typhoid! That's why FUNJOL has become America's best-selling drinking water antiseptic for poultry — proved by impartial surveys. Don't take chances. Get a bottle of FUNJOL today from your hatchery, feed or poultry supply store.

If your dealer doesn't have FUNJOL, *send a post card with his name and address . . . as well as your own . . . to* THE GLAND-O-LAC COMPANY, OMAHA, NEBRASKA. *We'll send you, free, a generous trial bottle.*

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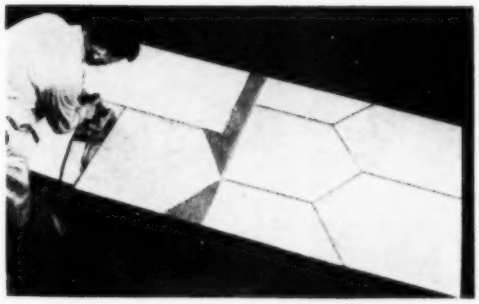
FUNJOL

Keeps Chicks' Drinking Water as Pure and Soft as Rain!

How to build a

Poultry feeder

By V. J. Morford
Iowa State College



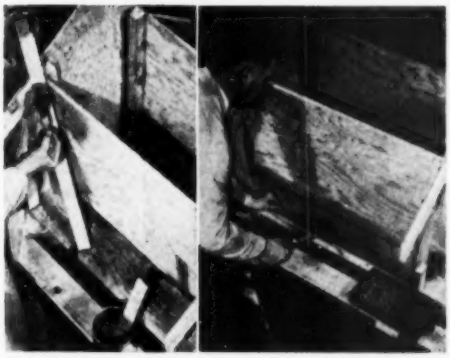
There's little waste, as indicated by dark areas, from 3 sheets of 3/8" plywood. Use *exterior* plywood, because it is a waterproof material.

Use a portable electric saw to speed cutting operation.

Feeder bottom, perches are nailed to the 2x4 cross members which are bolted to pressure-treated 2x4 skids. The triangular divider directs feed to troughs.

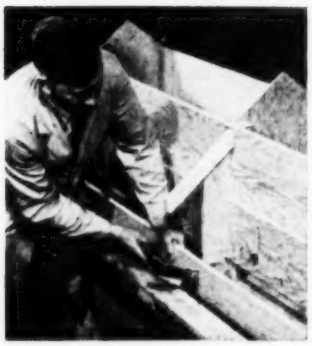
Partitions, behind, are slotted, ready for use.

The slotted partitions hold the sides; 1"x1½" reinforcing strips, glued and nailed, also hold partitions, trough board

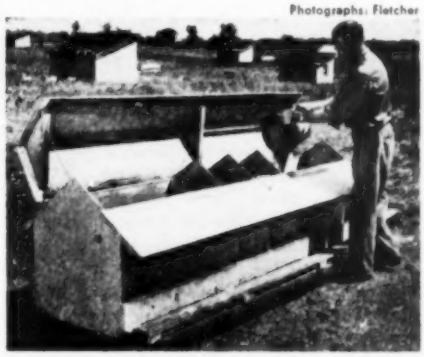


Powdered casein glue, mixed 1 to 1 with water, by volume, is used on all box joints to make feeder strong. Proper glue-mixing is important. Use 3d to 5d nails to hold joint until water-resistant glue sets

Photographs: Fletcher



Roof is supported by 1x2s glued and nailed to partitions, ends. Use rust preventive to protect nuts, bolts



Furnace chain holds roof. Midwest Poultry Range Feeder Plan, No. 87410, is available through any Midwest state agricultural college for 15 cents

AMAZING TEAT CUP DEMONSTRATION OFFER!

To demonstrate on your own cows, how you can milk up to 25% FASTER —do this:

Just order 4 genuine, red rubber MAES INFLATIONS at 90c each; we will send them postpaid and INCLUDE 4 durable brass or stainless steel MAES SHELLS! You PAY NOTHING for shells till end of 60 days. Then, if your own milking tests with these 4 complete TEAT CUPS demonstrate they do not milk faster and better, return shells postpaid. If they satisfy, send only $2.50 each (brass) or $3.50 each (stainless steel) for the 4 shells. Hurry! Mail coupon and $3.60 now for 4 inflations —pay NOTHING (or only $2.50 or $3.50 each per shell) AFTER 60 day demonstration! You may order as many complete sets of 4 teat cups as you wish to test all your units —on this liberal offer—if you act promptly!

Nationally Famous
MAES 2-PIECE TEAT CUPS

—milk up to 25% faster, cleaner, better with less strippings. Will not creep or drop off udder no matter size or shape of teats! Cups take apart, assemble in an instant. Just 2 pieces—the 1-piece dent-proof "lifetime" shell, the 1-piece flexible red rubber inflation! Genuine Maes Teat Cups milk as no other cup can with the same vacuum you now use. Their scientifically correct design is the result of years of research and the inventive ability of an honest-to-goodness FARMER! For healthy udders and absence of Mastitis, Maes cups and Maes inflations have no equal. So simple, sanitary, practical that thousands of profit-wise dairymen have used them daily for 20 years. IF you have a De Laval, McCormick-Deering, Sears, Empire, Universal, Anderson, Hinman, Perfection, Riteway or similar standard machine, just TRY my 60-DAY DEMONSTRATION now—send coupon! (Style B especially for De Laval is unequaled.) Fast 24 hour mail order service!

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Farmer Inventor

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Bear Creek Farm, Dept. M-24
Marshall, Michigan

I enclose $ ..... for ..... Maes inflations at 90c each.

Send also ..... Maes brass shells postpaid.

Send also ..... Maes stainless steels postpaid. I will pay $2.50 each for brass shells, or $3.50 each for stainless steel shells, within 60 days or return shells postpaid.

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Street or R.R. No. .....

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Machine Name .....

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S.O.S® keeps stoves looking best—cooking best

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S. O. S. Mfg. Co. of Canada, Ltd., Toronto, Ont.

A homemaker . . .

who practices what she preaches

The living room is cheerful and friendly. Large windows, a screened porch, and dining alcove give the room a feeling of space and openness

Ruffled percale curtains lend their charm to some refinished family antiques. Mrs. Stealey is doing applique work on a future bedspread

Pat has space for all his hobbies as well as the saddle for the horse he is hoping to get someday. His room has its own entrance

Photographs: Harris

By Lucia Hunter

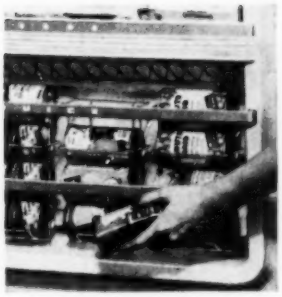
Mrs. Henry Stealey of Wentzville, Missouri, is the sort of a person who enjoys being active in community activities. She is now reporter and handicraft leader for the Home Economics Club and has been leader for the girls' 4-H Home Furnishings project. You can see from the way she has decorated her home that she is well qualified.

Her living-room wall was given a different look by painting the knotty pine white, then rubbing it while still wet to make the knots show through. The backs of the bookshelves were painted deep rose to pick up the drapery color. The simple but effective arrangement over the fireplace was given importance by the addition of a large barometer. A fine perch for 4-year-old Jo is the cozy window seat overlooking the beautiful, rolling hills of Missouri.

Mr. and Mrs. Stealey and their three children, Pat, Jo, and the baby, Mary Lee, lead busy lives. However, their home welcomes the bustle provided by entertaining and the children's activities—it was planned to include them. In fact, the Stealeys are planning now for a basement recreation room to take the rough-and-tumble activities, and to glass in the porch to enable them to use it for entertaining the year round. Thus the home keeps up with a family who has farsighted ideas.

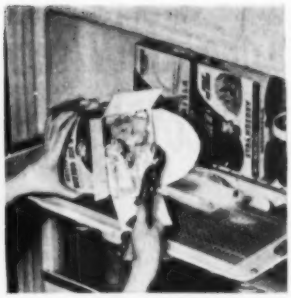
Handy, sliding shelves!

Adjustable, sliding shelves glide out, making it easier to reach things stored at back of freezer.



Fruit juice at your fingertips!

New frozen juice can dispenser keeps 16 cans of frozen fruit juice within easy reach.



Ice cream ready for serving!

Special Ice Cream Conditioner keeps a gallon and a half of ice cream at scooping temperature.

A place for bulky packages!

A hidden Stor-well at the bottom of the freezer comfortably holds bulky items like hams and roasts.

Everything within easy reach when you own a

New G-E Upright Freezer

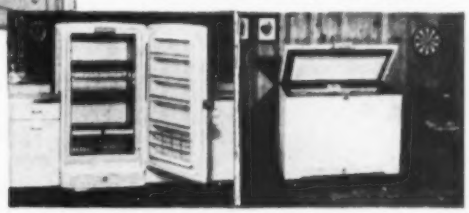
ENJOY complete freezer convenience in your kitchen with the new G-E Upright Freezer. Every feature, from slide-out shelves to the handy frozen fruit juice dispenser, helps make the job of food storage and preparation *faster* and *easier*.

So very dependable, too!

Every G-E Freezer has the same type of sealed-in refrigerating mechanism that has kept 3,500,000 G-E Refrigerators operating so efficiently for periods of 10 years and longer.

Choose from a complete line of upright and chest models. Prices begin at $299.95. Be sure to visit your G-E dealer soon. General Electric Company, Appliance Park, Louisville, Kentucky.

A new, sensible way to buy freezer space!



For compact convenience in the kitchen—
11-cu-ft G-E Upright Freezer

For roomy, bulk storage elsewhere—
11-cu-ft G-E Chest Freezer

Holds 525 pounds! Yet this new 15-cubic-foot G-E Upright Freezer takes less than one square yard of floor area. Price $519.95.

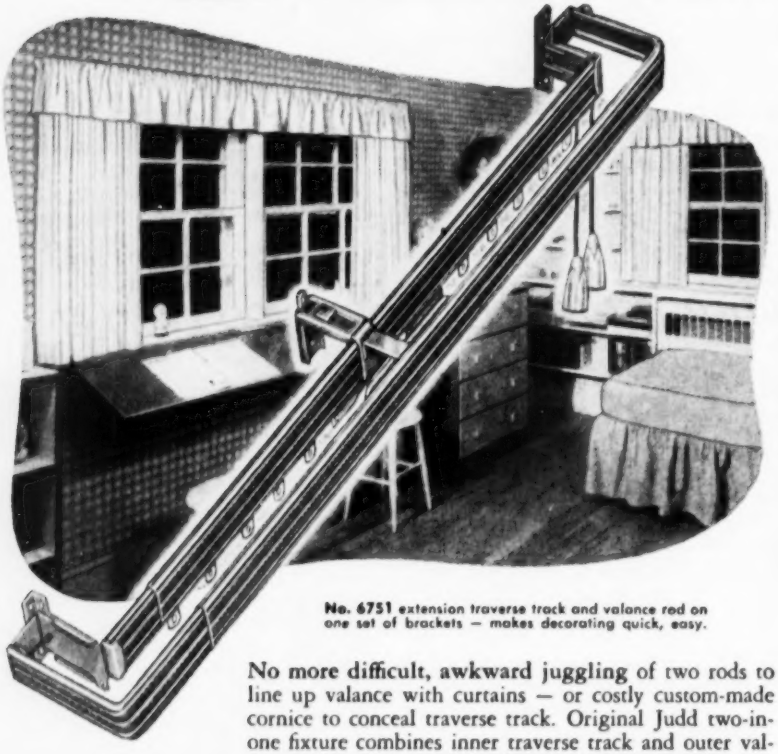
ABOUT $5.50* WEEKLY

Here's a wonderful solution for those who need 20 or more cubic feet of freezer space, but who haven't kitchen space for one of those "box-car-like" freezer chests. You can buy *both* G-E Freezers shown here and get 22 cubic feet of storage space. Ask your G-E dealer about this offer!

**After small down payment. See your G-E dealer for exact terms. Prices and specifications subject to change without notice.*

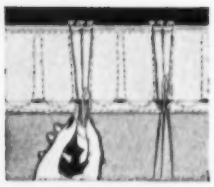
GENERAL ELECTRIC

Both Valance and Draperies on *One* Judd Combination Fixture



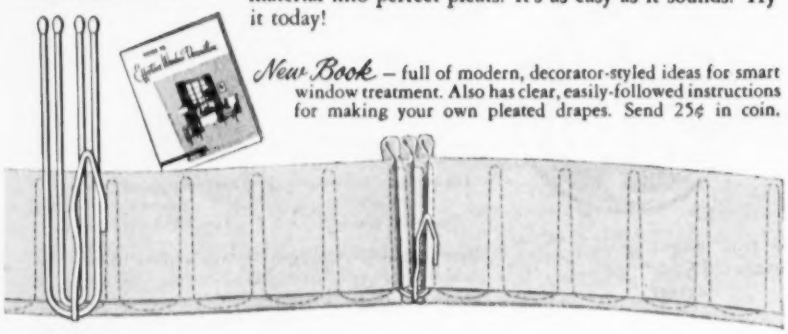
No. 6751 extension traverse track and valance rod on one set of brackets — makes decorating quick, easy.

No more difficult, awkward juggling of two rods to line up valance with curtains — or costly custom-made cornice to conceal traverse track. Original Judd two-in-one fixture combines inner traverse track and outer valance rod on *one set of brackets.* As in the attractive children's room shown above, a simple shirred valance on the outer rod conceals traverse track. Drawcords open and close curtains smoothly. Fixture of sturdy steel with long-wearing nylon moving parts. *Judd's No. 6751* — sizes 28 to 156 inches. Off-white enamel finish.



Here's why You can Make Better Pleated Drapes with Judd Pleatmaster®

With the *Judd Pleatmaster* method of making pinch-, box- or cartridge-pleated drapes, you'll save time and achieve perfect decorator effects. *Pleatmaster tape* is all ready to use, with preformed pockets and finished edges — and it is *Sanforized.* Simply sew tape along top edge of material—then slip *Pleatmaster hooks* into the pockets. Hooks have a round pinch base that automatically gathers material into perfect pleats. It's as easy as it sounds. Try it today!



New Book — full of modern, decorator-styled ideas for smart window treatment. Also has clear, easily-followed instructions for making your own pleated drapes. Send 25¢ in coin.

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JUDD decorator-styled **Drapery Fixtures**

H. L. JUDD COMPANY • Dept. SF-2 • Wallingford, Conn.

Tips for

Try these ideas that and make your food

● Corn bread with bacon is extra good for breakfast. Mix corn bread according to your usual recipe or follow directions on package of corn-bread mix. Crumble 3 slices of crisp bacon into the batter. Pour into greased pan. Bake as usual or according to package directions.

Photographs: Stanley

● For quick cinnamon rolls, cut day-old white rolls into three layers. Butter slices; sprinkle generously with mixture of brown sugar, butter, cinnamon. Stack slices; arrange in greased baking dish. Reheat in oven.—*Irene Bishop, Michigan.*

● Try this easy dressing on your own favorite fruit salad. Combine ½ cup strained peaches (baby food), ¼ cup mayonnaise, and 1 tablespoon light cream.—*Mrs. Marvin Fisher, Missouri.*

● Here's a good idea for hot chocolate that's wonderful on these cold evenings. Before serving, top each steaming-hot cup with a marshmallow that has been rolled in cinnamon. Gives a good flavor—nice and spicy!

the cook

add sparkle to meals
preparation simpler

● Taste twisters for soup that are extra good. Potato soup gets a new lease when you add ¼ teaspoon dill seed in a cheesecloth bag. Just heat soup, remove bag, and serve. Vegetable soup tastes "special" if you add a pinch of sage. One or two bay leaves added to tomato soup makes a real taste difference. These tricks are good with either canned or homemade soup.

● For something new on the breakfast menu, vary the plain-waffle theme by sprinkling 2 to 3 tablespoons shredded coconut over the batter in the waffle iron. You may wish to cut the coconut into smaller pieces. Bake the waffles as usual and serve with hot syrup and butter. You'll want to try this as a quick supper treat, too.

● You don't have to be under 12 to go for honey butter on hot biscuits, toast, or muffins. Kids all the way up to 60 look upon this spread as a real treat. Combine equal portions of honey and butter softened to room temperature. Stir until well blended. This is the kind of trick that turns breakfast into a banquet.

● A wonderful orange sauce for sweet potatoes, broiled ham slices, fruit cup, or griddle cakes: Combine 1 cup orange

juice, 2 tablespoons butter, and ⅓ cup orange marmalade. Heat over low heat for 5 minutes, stirring constantly. It is delicious and quick, too!

● A new twist for ripe olives: Cover olives with salad oil to which has been added 1 crushed clove of garlic. Let stand overnight in the refrigerator. Remove from oil and drain. Serve with other relishes. Very different and good.—*Mrs. Florence C. Schenk, Indiana.*

For Golden Honey Flavor
—IT'S
Post's SUGAR CRISP

Every light golden wheat puff has that magic touch of honey!

WONDERFUL EATIN' 3 WAYS!

FOR BREAKFAST IT'S DANDY! IT'S CRISP! IT'S HONEY-AND-CANDY COATED!

FOR SNACKS IT'S SO HANDY! LIGHT 'N CRUNCHY—SUCH FUN TO EAT!

OR EAT IT LIKE CANDY! HEALTHFULLY WHOLESOME—JUST SWEET ENOUGH!

Post's SUGAR CRISP

No Wonder SUGAR CRISP is America's new candy-coated cereal favorite!

A Product of General Foods

NATURE TELLS

When a hen needs calcium nature tells her in no uncertain terms. When Pilot Brand oyster shell is in the hopper she takes only what she needs—no more, no less. There is no waste.

This procedure repeated under control over a two-year period showed consumption of about five cents worth of oyster shell per hen per year, and increased egg production to show an unbelievable percentage of profit.

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At most good feed dealers

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New discovery helps make
PROBLEM SOILS
***more* PROFITABLE!**

New! Low cost! Easy-to-use! Get facts about Hybro-Tite*—*natural rock soil conditioner*—containing potash plus 19 trace minerals, which may unlock growth-producing elements in your soils. ● Read how it may help you improve pastures...*grow bigger yields of grains, row-crops, fruit* . . . bring problem, worn-out soils into profitable production! ● Write for valuable free booklet—"Nature's Own 20-Mineral Soil Conditioner" —*today!* ● Address: Potash Rock Company of America, Inc., Box SF2, Lithonia, Ga.

FREE BOOKLET TELLS HOW!

HYBRO-TITE*
Nature's own 20-mineral
SOIL CONDITIONER

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Aim HIGH-Aim LOW!

You don't need a third hand with a Delta Reddylite. Hang it up. Set it down. Aim the 800-ft. beam anywhere! Uses 6-volt battery. See your dealer. Yours, less battery for $3.50

Delta ELECTRIC CO. Marion, Ind.

REDDY*lite* 360° Swivel ELECTRIC LANTERN

Can you outfarm these kids?

Photographs: Metcalf

State Star Farmer for 1953, Harlan Hansen made more than $6,000 last year. Here he takes time out from corn planting, talks crop prospects with his F.F.A. adviser

Soil testing is a big factor in modern farming. Vo-ag Teacher Hoberg shows his sophomore class how to test soil samples

Future Farmer awards by the dozen. Hoberg will have to build another cabinet if his boys continue to bring in top honors

By Jean Metcalf

How about it—did *you* clear from $3,000 to $6,000 last year?

Here are some farm kids who did. These "future farmers" at Ortonville, Minnesota, are going great guns *right now*.

Take Harlan Hansen, 17-year-old State Star Farmer for 1953. He made $6,177 last year, and has a net worth of more than $10,000. Harlan has a supervised farming program on 225 acres. He raises hogs, beef cattle, and dairy cattle.

Another Ortonville boy, Ronald Scott, 18, farms 30 acres, and takes special pride in his herd of purebred Chester Whites. He made over $4,000, chiefly from 84 head of hogs.

Marvin Grimm, 20, farms 190 acres for his mother and himself. He cleared nearly $3,000 last year, and has a net worth of $14,253. In 1952, he was District Star Minnesota Farmer.

Picked at random from different areas in the state, the records of these boys wouldn't be significant. But all of them come from an area around Ortonville, and all of them belong to the Future Farmers' chapter there. Other members of the chapter have similar records.

Since 1940, the Ortonville F.F.A. chapter has contributed 11 American Farmers, 5 State Star Farmers, 2 national officers, 3 District Star Farmers, 5 state officers, 6 state directors, 11 district officers, and 72 State Star Farmers, plus dozens of winners in state and district judging.

So, what makes this chapter tick?

It seems to be Rolland H. Hoberg, vo-ag teacher and F.F.A. adviser. Hoberg's secret is the genuine personal interest he takes in each student, says Ortonville's former superintendent of schools. He adds, "I'd like my son to take agriculture if he

[*Turn to page 124*

Who does the dirty work on **your** farm?

Farm buildings made of *steel* can take a good deal of the dirty work off your hands.

Fire-safe steel buildings can be built close together, with covered areaways between buildings to keep mud and rain away from your chore route. This compact layout will save you miles of walking, too.

Steel buildings save you time-consuming maintenance work. They are rat-proof and weathertight. When they're made of Armco ZINCGRIP—a special steel with a special protective zinc coating—they resist rust and stay attractive for many years.

Steel buildings are easy to erect with ordinary tools. When your farm needs change, these buildings can be relocated to keep your layout efficient.

Look for the Armco triangle trademark on steel buildings or any other farm equipment. When you see it, you know the manufacturer has used a special-purpose steel to give you long, low-cost service.

ARMCO STEEL CORPORATION

MIDDLETOWN, OHIO · THE ARMCO INTERNATIONAL CORPORATION, WORLD-WIDE

YOU'RE MONEY AHEAD WITH PRODUCTS MADE OF ARMCO SPECIAL-PURPOSE STEELS

ARMCO

A new kind of supplement
unlocks new feeding values
in your home-grown feeds

There's good milk-making value in all your home-grown feeds, even your coarsest roughage. But some of this feed value will go to waste if your cows can't break down the tough cellulose fibers in these feeds.

Many dairy feed supplements now give cows greater ability to digest all qualities of roughage because they include Du Pont "Two-Sixty-Two" feed compound. "Two-Sixty-Two" provides urea nitrogen which cows make into protein, and, in the process, they get an important added benefit which helps stretch your feed supply.

This new benefit is the result of increased rumen activity. When properly blended with other ingredients, the nitrogen of "Two-Sixty-Two" nourishes and stimulates the rumen bacteria. It helps the bacteria multiply faster with the result that fiber in all feeds is broken down and digested more rapidly and more completely.

These new supplements fortified with "Two-Sixty-Two" help you cut your milk production costs—help your home-grown feeds do a better job. Talk it over with your feed man.

E. I. du Pont de Nemours & Co. (Inc.), Polychemicals Department, Wilmington, Delaware, or 7 So. Dearborn St., Chicago, Ill.

DU PONT
REG. U.S. PAT. OFF.

TWO-SIXTY-TWO®
Feed Compound

BETTER THINGS FOR BETTER LIVING
...THROUGH CHEMISTRY

Can you outfarm these kids?

From page 122

could have Hoberg as a teacher." Pretty good praise from a fellow educator.

As for Hoberg—"You can either pedal or coast," he says. If he's not out docking sheep for someone, he's caponizing, grafting fruit trees, dissecting a hen for disease, taking a soil sample, or helping with a special insect problem.

When he's not busy with community service, he's teaching adult agriculture classes or the young farmers' group, visiting one of his F.F.A. boys or farm veterans, helping a practice teacher, or leading the 4-H Club.

The vo-ag teacher likes the idea of taking the individual boy and adapting the subject matter to him. He can extend his interest outside his own field, too. When one of his boys had trouble with English last spring, Hoberg helped iron out the difficulty through talks with the teacher, the boy, and his parents.

A man with ability like this hasn't gone unnoticed in state farming circles, but Hoberg has turned down all offers for higher positions. After 20 years in Ortonville, he'd miss his boys too much to ever think of leaving. It's a nice feeling to drive around the Ortonville farming area and see all his "future farmers" who have become "successful farmers." **END**

Self-feeding hay shed

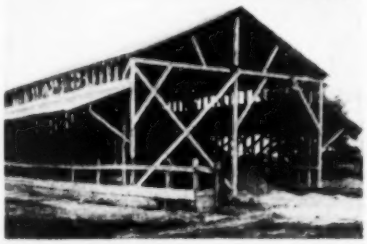
Here's a hay shed that's nearly 100 percent self-feeding.

M. N. Lane, Meridian, Idaho, built this shed for $1,000. It holds 140 tons of chopped alfalfa, has feeding racks on 3 sides. Lane seldom has to rake any of the alfalfa out from the center.

Lane used 2x6 lumber for the frame, covered it with 1½" steel mesh salvaged from old railway refrigerator cars.

The lower strip of mesh comes off when he starts to feed. The front end of the shed is open so machinery can be stored there when shed isn't completely full.

Photograph: Aiken



Feeding 80 steers is simple with this 28'x54' shed. Job takes about 15 minutes a day. The shed and the steers do the work

How to lick 10 tiling problems

When it comes to tiling problems, soil-conservation technicians usually have seen them all. Walter Thoreson, Soil Conservation Service technician at Spirit Lake, Iowa, lists the following 10 as the most common mistakes made in tiling—tells you how to correct them.

1. **Outlet trouble.** Use a galvanized pipe at the outlet, as tile will slough off and a gully may start. Where surface water runs over the tile end, build a concrete bulkhead to prevent dislodging of the outlet tile or pipe.

2. **Tight spacing.** Tile swell when wet, sometimes sealing out drainage water. For most soils space tile so a ten-penny nail can just be slipped between. Space them slightly closer in coarse, gravelly subsoils.

3. **Not enough grade.** Place the main tile as even as possible. This is very important on level land where a backfall or sag in the line may cause the water to seep up instead of out of the line.

4. **Flat ditch bottom.** Shape the bottom of the ditch like a saucer. If bottom is flat, tile will slip out of place when backfilling.

5. **Too shallow.** Best depth is 3 to 4 feet for best drainage and least interference with machinery. Where lines are shallower, they must also be closer together.

6. **Tile too small.** Consult with your county agricultural agent or soil conservation man about the size of tile needed. Take into account greater drainage loads that the tile may need to carry in times of heavy rainfall.

7. **Using cheap tile.** Use cured, good-quality tile. If "seconds" do not hold up, you spend a lot more retiling than good tile will cost in the first place.

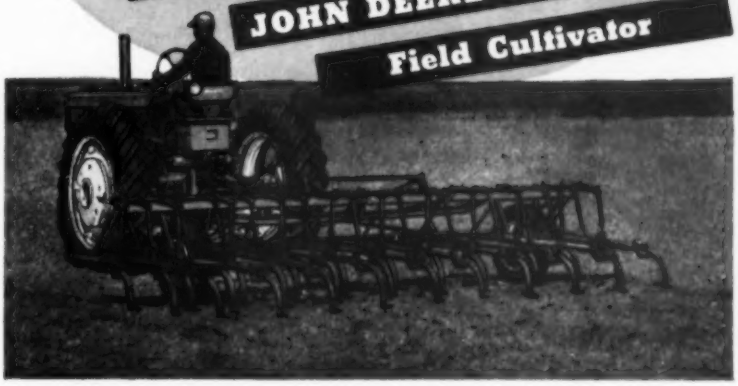
8. **Poor connections.** Use Y connections where possible, or cement connections so that dirt and soil cannot clog line.

9. **Animals plug tile.** Use screen or a swinging gate over end of tile to prevent rodents and other animals from getting in and plugging lines.

10. **Tile lost.** Just knowing you've tiled won't help you when you have trouble. Keep detailed drawings and records to show *where* you've tiled. **END**

Your SEEDBED Is the Cradle of Your Crop...

BUILD IT WELL WITH A JOHN DEERE-VAN BRUNT Field Cultivator



Maybe you've been looking for a fast, economical way to build a seedbed—for a machine like a John Deere-Van Brunt Field Cultivator that will take any soil in stride and leave a firm, mellow seedbed—the kind that assures early, even germination, rapid root development and a full, wholesome stand of grass, grain, or row-crop.

Your John Deere dealer can show you that the John Deere-Van Brunt is the **easy** way, the **saving** way, the **practical** way to build that seedbed. And he can show you, too, how you can do many other tillage jobs with a John Deere-Van Brunt Field Cultivator—make it pay for itself season after season. See him on your next trip to town.

Top photo: The drawn-type Model "CC"—a famous tillage tool the country over. **Above:** The "C-7," an integral field cultivator for John Deere "40's" and other 3-point hitch tractors. **Right:** The "C-4" for the John Deere "50," "60," and "70" Tractors.

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Garden and Small Farm Tractors
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Best for all around garden and lawn work. Variable speeds, adjustable wheel widths, individual gang tool controls. 3 speed and reverse automotive gears on 3 and 5 H.P. models. Superb traction, deep plowing, easy handling. All wanted tools and attachments.

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Powerful, practical, streamlined, comfortable. Pulls 8, 10, 12 inch plows, cultivates between 38" rows, bulldozes, mows lawns, operates belt attachments. 3 speeds and reverse automotive transmission. Friction brakes. ¾ to 7 M.P.H. Nothing else like it in a tractor that will get the work done.

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Laughing at Life

All Run Down

Mrs. Nibbs: "No wonder Stella's husband is sick. He takes too much exercise."
Mrs. Gibbs: "What makes you think that?"
Mrs. Nibbs: "Stella told me he was out five nights running last week."

Liquid Assets

Joe: "Is Bloater able to weather a financial storm?"
Moe: "He ought to be. He has rafts of money."

We Wonder Why

Sign in factory: *"Ladies—if you wear loose clothing, beware of the machinery. If you wear tight clothing, then beware of the machinists."*

New Kind of Wallflower?

A none-too-wide wall with a widow smack in the middle of it is run-of-the-mill in thousands of homes.—*Pasadena (California) Independent.*

Bitter With the Sweet

Mr. Stern: "So you desire to become my son-in-law?"
Young Ernest: "No, sir, I don't. But if I marry your daughter, I don't see how I can very well get out of it."

As Many Well Know

Don't worry too much about your station in life. Sooner or later someone is sure to tell you where to get off.

Not Found on Shelves

Hank: "I don't like this town. I went to a dozen stores and still couldn't get what I wanted."
Lank: "What was it you wanted?"
Hank: "Credit."

What Other Answer?

Lady (on bus): "Driver, do you stop at the Ritz Hotel?"
Driver: "No, Madam. I still live at home with Papa and Mama."

Lively Numbers

The hostess presented a varied program of sons and readings by several members.—Baraboo (Wisconsin) News Republic.

A Bachelor's Viewpoint

Mr. Fear: "Do you think it means bad luck to put off a wedding?"
Mr. Wise: "Not at all—if you only continue to put it off."

Small Place, Small Start

A city traveling man was stuck in a small-town hotel overnight. Bored, he tried to make conversation with the clerk. "Any big men ever born in this town?" he asked. "No," replied the clerk, "the best we can do is babies. Different in the big city, I suppose?"

Where We Like to Stay

Wanted: Cook for country hotel with clean habits.—Advertisement in *The Saskatchewan Farmer.*

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"Dickie, I'm sure Mr. Alford has already noticed your new shoes."

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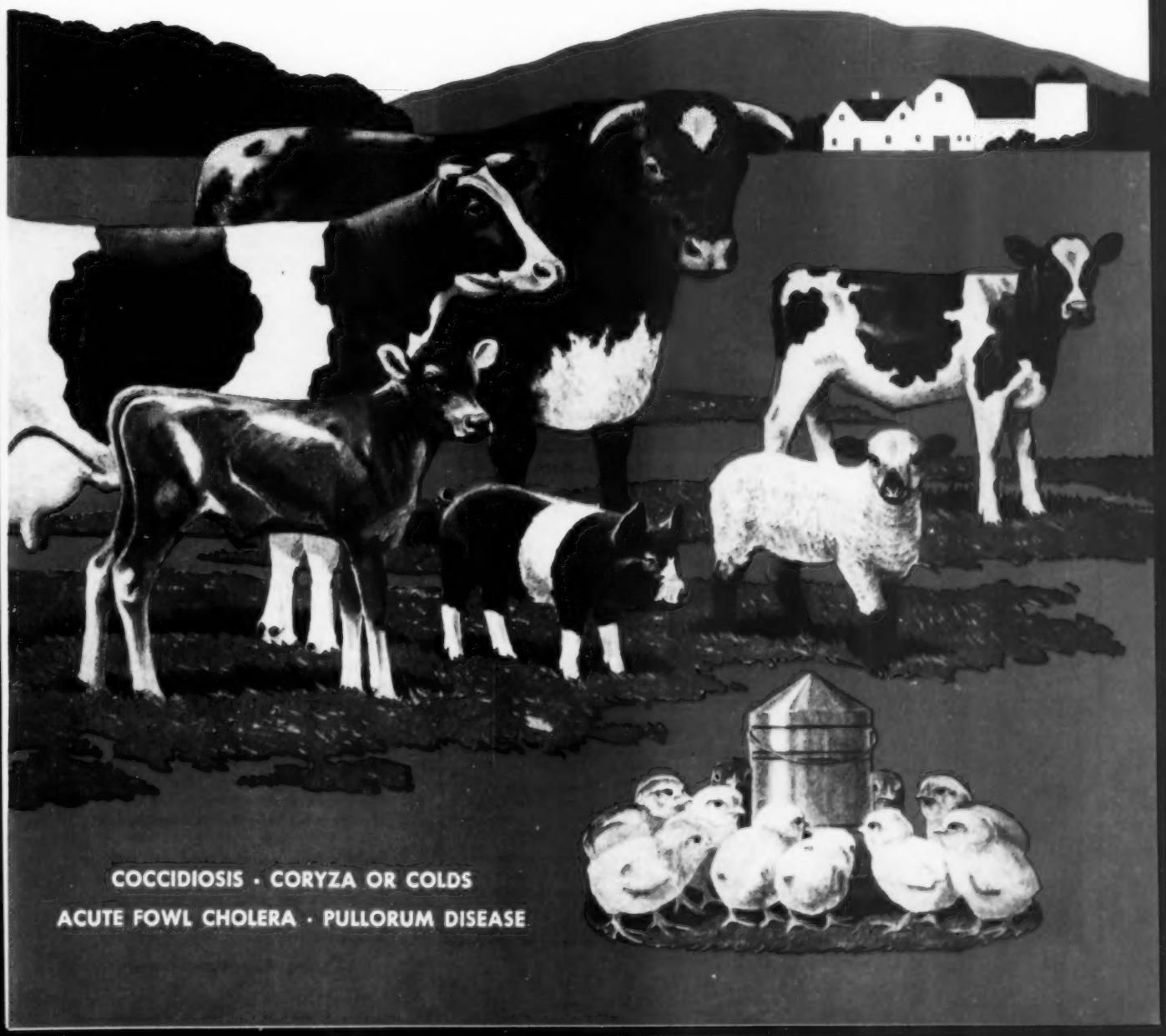

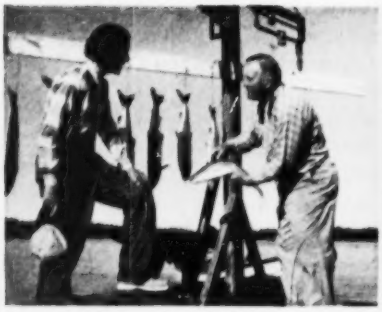

FISH for fighters in this land of lakes and streams. Choose *your* favourite — trout or salmon, pike or musky or bass.

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The PLAY

Where playfellows

The Refrigerator Game. This is a game a friend of ours invented for her children. We think you will enjoy playing it, too. Two, three, or four persons can play.

Ask Mother for an old deck of cards. You will need 50. Cut colored pictures of fruits, vegetables, and canned foods from seed catalogs, magazines, and can labels. Cut out 10 sets of two pictures nearly alike; 6 sets of three pictures alike; 3 sets of four pictures as nearly the same as possible.

It adds to the fun if some sets are only slightly different from others. For instance, make one set of peas in a *blue* dish; make a second set of peas in a *red* dish. Another example would be one set of pictures of orange juice with the orange on the *left* side of the glass. The second set might have the orange on the *right* side of the glass.

Paste the pictures on the cards. Now, mix the cards up and place them face down on the center of the table. This pile is the "refrigerator."

Each player draws five cards and lays them face up in front of him. The one with the shortest first name begins. He looks over the cards of the other players. If he sees one like one of his, he may ask for it. "Please, may I have your string beans in the blue dish?" This is a "book" which he lays aside face up. If there is another card like these, and it is drawn later or belongs to one of the other players, whoever owns it may call for the "bean" book. That's why some sets must have three or four cards alike. If a player gets a card from another, he may call again. But only two calls in one turn.

If no one has a card to match his own, he goes "to the refrigerator." If the one he draws matches his, it makes a book. If it matches another player's, he may ask for that player's card. The player who makes the most books wins.

Name this farm animal: See if you can discover what four-legged farm friend is hidden here. Each line gives you a clue. Look for a letter that is in the first italicized word and not in the second. If you can't guess the answer, you will find the answer at the bottom of the next page.

My first is in *sloppy* but never in *clean;*
My second in *fattish* but never in *lean.*
My third is in *flowing* but not in *flood*;
My whole is a baby that plays in the mud.

Bubble fun. You can blow soap-bubble masterpieces with a pipe made right at home. All you need is an empty spool. Mother will surely have one in her sewing basket.

HOUSE®

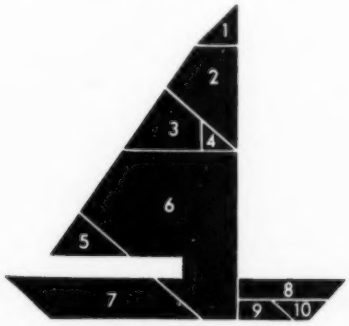
meet every month

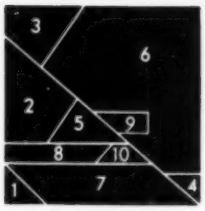
Dip one end of the spool in a cup of water. Now, rub this end over soap and dip in water again. Blow into the dry end and watch the bubbles fly.

It's lots of fun to blow colored bubbles, too. You can make any color you wish by adding a few drops of vegetable coloring to the water.

To make your bubbles extra tough, drop a few drops of glycerin into your cup of water.

A square-cut boat. The boat below is not exactly a square-rigger, but you can have some square fun with it if you like. Just cut it into the pieces shown. Trace it on cardboard, if you wish; it will be





easier to work with. Now put all the pieces back together again to form a square.

Try this on your family and friends. Do not show them the answer right away. See if they can work it out themselves.

Hey Riddle-diddle

1. Why is an egg like a colt?
   It isn't used until it is broken.
2. What is easy for you to part with?
   A comb.
3. Why does a baby pig eat so much?
   To make a hog of himself.
4. What is an adult? *Someone who has stopped growing except in the middle.*
5. What runs but cannot walk, and has a tongue but cannot talk? *A wagon.*
6. What starts with T, ends with T, and is full of T? *A teapot.*
7. What is full of holes but still holds water? *A sponge.*

Answer to farm-animal puzzle: *Pig.*

Stomach UPSET?

Hospital Tests Prove Pepto-Bismol works where Soda and Alkalizers Fail!

1. Pepto-Bismol helps soothe in the stomach...where soda and alkalizers may actually retard digestion!

2. Pepto-Bismol also helps calm distress in the intestinal tract...where soda and alkalizers NEVER help!

Pepto-Bismol's special medicinal formula soothes irritated stomach and intestinal walls with a gentle coating action. Pepto-Bismol helps retard gas; calm heartburn, nausea. Even controls simple diarrhea without constipating. *At all druggists.*

Mothers—for children's upsets— your doctor can tell you the *safe* way is the *best* way! Give your child gentle, pleasant-tasting Pepto-Bismol!

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"Recipe for Color" film strip on home decorating, now available at only $3.95. For full information, write Successful Farming, Des Moines 3, Iowa.

Effective Cough Syrup, Mixed at Home for Economy

No Cooking. No Work. Real Saving.

Here's an old home mixture your mother probably used, and is still one of the most effective for coughs due to colds. Once tried, you'll swear by it.

Make a syrup with 2 cups granulated sugar and one cup water. No cooking needed. Or you can use corn syrup or liquid honey, instead of sugar syrup.

Now put 2½ ounces of Pinex into a pint bottle, and fill up with your syrup. This makes a full pint of cough medicine, and gives you about four times as much for your money. It keeps perfectly and tastes fine.

And you'll say it's really excellent for quick action. You can feel it take hold swiftly. It loosens phlegm, soothes irritated membranes, helps clear the air passages. Thus it makes breathing easy and lets you get restful sleep.

Pinex is a special compound of proven ingredients, in concentrated form, well-known for its quick action on throat and bronchial irritations. Money refunded if not pleased in every way.

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SAVE ⅓ DO-ALL PUMP

This amazing DO-ALL PUMP is perfect for discharging waste water from laundry tubs, washing machines and all fixtures and appliances located below sewage outlets. Also drains flooded areas, tanks, ponds, swimming pools. Circulates water in cooling systems. Made for continuous rugged service. All bronze construction with dynamically balanced impeller and latest type rotary spring seal. Motor: ¼ HP, 115V., A. C., 60c., cradle mounting with built-in thermal overload switch. 8 ft. rubber covered cable and plug. Flanged base for permanent mounting. Inlet: 1¼"; discharge 1". Unconditionally guaranteed. Literature available.

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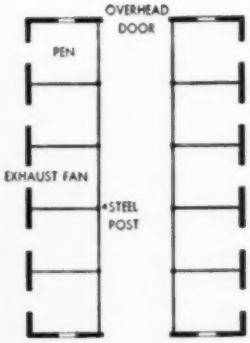


This laborsaving farrowing house contains from 1 to 15 pens. The hoghouse is 40' x 28', and has a concrete floor and foundation.

Rhyme saved about $300 by using lumber from an old stave silo to construct the gates and the doors.

Farrowing-to-market hoghouse

By Harold Severson

Here's a year-round hoghouse that's in use from the day the pigs are born until sold.

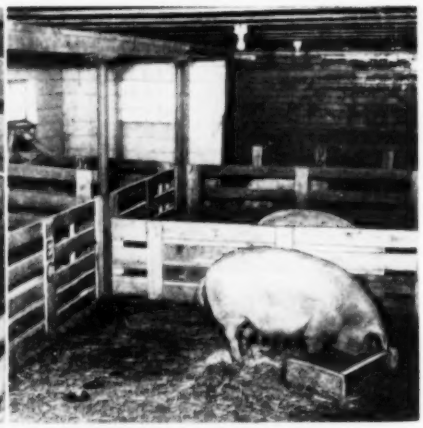
Earl Rhyme, La Crosse County, Wisconsin, could see no need of two sets of buildings for raising hogs. His flexible hoghouse can be changed to fit the needs of the hog, regardless of its size. And at the same time, none of the laborsaving features are sacrificed.

Key to this hoghouse's flexibility is the lightweight partitions used to change one long pen into smaller pens at farrowing. As the pigs get older, the partitions are removed, giving the hogs the run of the house.

Each pen has an opening to the outside. To turn pigs outside, Rhyme simply pulls a rope hanging down in the center of the building. The rope is attached to the door, which slides up and down in a channel-iron frame.

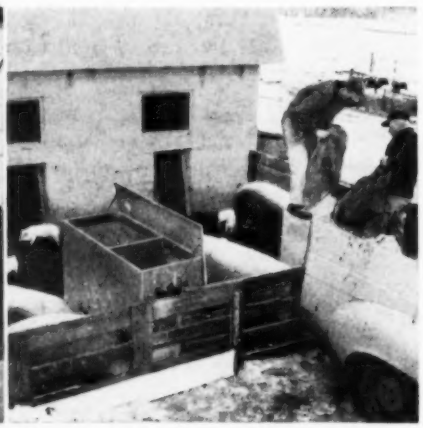
Sliding doors, 10' wide, make it possible to run machinery into the building [*Turn to page 132*

Channel irons are welded to steel posts, hold partitions for individual pens. Other channel iron is bolted to the side of hoghouse walls



Overhead doors are 10' wide, open from either end of alley extending down the center. Truck can be driven into hoghouse to fill feeders. Alley becomes part of big pen when partitions are removed

Sliding doors are set at angle, ride in channel-iron supports. Rhyme lifts doors with a pulley arrangement. Sows can't open heavy doors



Concrete apron around the hoghouse eliminates mud problem, makes it possible to drive feed trucks alongside self-feeders. The concrete foundation and apron help keep the building ratproof

Photographs: Pease

"Time saved here." Wide speed range, maneuverability and economy make the 'Jeep' the handiest of all vehicles for towing in the field or on the road.

"My Jeep is the first thing out in the morning-last in at night!"

Says Harold Bordner of Weston, Ohio

"Day in and day out the 'Jeep' is the busiest piece of equipment on my farm. It saves so much time that I don't see how I could ever get along without it."

Harold Bordner's farm, Black Swamplands, has a total of 1000 acres, all under cultivation. He specializes in seed crops and pure-bred Angus cattle.

"You can't beat it for smooth, steady belt power." The 'Jeep' delivers in excess of 30 H.P. on the pulley at engine speeds from 1,000 to 2,600 R.P.M., governor controlled.

"My 'Jeep' saves money on hauling and towing jobs, and helps out when other equipment is busy." The 'Jeep' is powered by the *Hurricane* 4 Engine for power with economy.

"Here is year 'round transportation that won't stop at weather—mud, snow, icy roads." With its 4-wheel traction, the 'Jeep' goes through when others can't.

"Odd jobs are done in a hurry with the help of the 'Jeep'." Grader attachment operated with the 'Jeep' and hydraulic lift keeps driveways in good condition.

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UNIVERSAL
'Jeep'®

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Kaiser-Willys Sales Division
Makers of America's Most Useful Vehicles

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Many farming costs are fixed . . . for example . . . every corn field must be plowed, disked, planted, cultivated and picked. In addition, rent, interest, building and machinery depreciation and other fixed expenses must be charged to the crop each year. But by spending money for things necessary to increase the yield, such as fertilizer, the cost of producing each bushel of corn is lowered and net profit is increased. Follow the recommendations of your State College for the most profitable return from your fertilizer investment. Today this is more important than ever.

Low Yielding Fields		High Yielding Fields
$31.66	Total Fixed Costs of Corn Production (Ground preparation, planting, cultivating, etc.)	$31.66
$1.50	Seed	$2.40
$4.25	Fertilizer	$34.74
$4.77	Picking	$5.77
$ .30	Interest	$1.67
$42.28	Total Costs	$76.24
48 Bushel	Acre Yields	106 Bushel
$ .88	Bushel Costs	$ .72
$72.00	Gross Income Per Acre (Corn at $1.50 per bu.)	$159.00
$42.28	Acre Costs	$76.24
$29.52	Net Per Acre	$82.76

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Increase your yields . . . increase your profits by using the best in fertilizer . . . DAVCO GRANULATED FERTILIZER. This fertilizer is available from your friendly DAVCO Agent in all the grades recommended by your State Agricultural Experiment Station.

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DAVISON . . . Pioneer Producers of Granulated Fertilizers

Farrowing-to-market hoghouse

From page 130

when filling feeders—or cleaning out the pens.

Slag aggregate is used underneath the concrete floor to insulate it from the ground during freezing weather. First, a layer of gravel was poured, then 6″ of aggregate was placed on top of it. The insulating properties of the aggregate prevent cold and moisture from reaching the concrete.

Bedding is dropped through opening in second floor. Loft holds several thousand bales of straw and hay, a winter's supply

Door within a door saves time and labor for Rhyme. It also saved making another opening in wall, keeps the house tighter

Warm floor means healthier pigs. Floor construction insulates pigs from ground cold, even in the coldest winter weather

Successful Farming *stores*

Here are local stores interested in the farm family, and carrying out the practical editorial ideas from *Successful Farming* magazine. Starred stores have full-time home planning consultants, ready to offer suggestions and advice.

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Champaign..... Robeson's
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*Cedar Rapids.... Smulekoff's
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Dubuque..... Stampfer's
Fairfield..... Bradshaw's
Iowa City..... Kirwan Furniture
*Marshalltown.... The McGregor Co.
*Sioux City..... Martin's
Waterloo..... Black's

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Coffeyville..... Mehornay's
Hutchinson..... Wiley's
Salina..... Mehornay's

Michigan

*Lansing..... J. W. Knapp Co.

Minnesota

Albert Lea..... Skinner-Chamberlain
Mankato..... Landkamer Bros.
Worthington..... Hanson's Town & Country

Missouri

Columbia..... Mehornay's
*Kansas City..... Mehornay's
Marshall..... Mehornay's
Maryville..... Mehornay's
Sedalia..... Mehornay's
*Springfield..... Heer's, Inc.
*St. Louis..... Stix, Baer & Fuller

Nebraska

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Kearney..... Swan's Furniture
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McCook..... Swan's Furniture
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*Columbus..... F. & R. Lazarus
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*Pittsburgh..... Joseph Horne Co.

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FOR PLANNED PRODUCTION ALL YEAR

This sign identifies dealers who sell Reynolds Aluminum Irrigation Pipe.

This label identifies Reynolds Aluminum irrigation Pipe.

While winter's still here, find out all the advantages of planned production with portable sprinkler irrigation on your farm. Come Spring, come Summer, be prepared for all kinds of weather with "push button rain." Your portable sprinkler irrigation system will bring you earlier crops . . . increased yields . . . crops that *grade* higher, too. Even if there is "normal" rainfall. And if a drought should come, planned production with your portable sprinkler irrigation system will make the difference between a loss or a profit.

Don't delay until rainless days come and everyone else wants irrigation pipe, too. There may not be enough to go around. Order now while supplies are available.

Remember–strong, lightweight, rustproof Reynolds Aluminum Irrigation Pipe is the lifeline of your portable sprinkler irrigation system. It's light . . . you can move it alone. It's durable . . . you can maintain it alone.

Consult your local, experienced irrigation equipment dealer who handles Reynolds Aluminum Irrigation Pipe. He will plan a portable sprinkler irrigation system that is best for your needs. It's the best "crop insurance" your money can buy.

Member of the SPRINKLER IRRIGATION ASSOCIATION

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REYNOLDS METALS COMPANY, 2570 S. Third St., Louisville 1, Ky.

Please send "More Income Per Acre", your new illustrated booklet on the applications and advantages of portable sprinkler irrigation.

Name.....

R.F.D. or Street.....

Town..... State.....

EYES TIRED?

two drops • quick relief

Make this simple test today!

Put just two drops of Murine in each of your tired eyes and it will bring you a feeling of refreshment —in a matter of mere seconds. Murine is as gentle as a tear, so it can bathe and soothe the delicate tissues beneath the lids just as your own tears do. And that dull feeling of annoyance and fatigue seems to float right away. Murine makes your eyes feel good.

MURINE
for your eyes

When you're upwards from 13...

Your looks depend on the food you eat

You can eat right to look right and still have fun. Enjoy that soda or sundae but be sure you're not skimping on the foods you need or getting too many calories

By Ruth M. Leverton

Tall or short, big or little, nature has a plan for you. That plan includes a figure fit for whistle-bait. Your having such a figure depends on how much help nature gets from *you*. Only you, through the foods you eat, can supply nature with the materials she needs to make that figure come true. You must give her continuous help, too—the hit-and-miss variety brings disappointing results.

Some girls don't pay any attention to nature and her plans for them. You probably all know a girl like Kay. She eats only what she likes and she doesn't like milk or vegetables. She doesn't care that scientists have spent many years learning what teen-age girls need to eat to make them strong, healthy, and attractive women. When nature needs calcium for strong bones and vitamin A for a smooth skin, Kay supplies sugar and starches *instead of* milk and vegetables.

When nature needs vitamin C so she can stack the cells in the bones and soft tissues firm and straight and make the walls of the blood vessels strong, Kay drinks soft drinks and coffee *instead of* orange and grapefruit juice.

Nature does the best she can to cover up rough skin and tumbled down cells but she can't make something from nothing. Nature can't keep Kay's skin healthy, her posture upright, or her muscles smooth and strong unless she eats the right foods.

Here's hoping you're the smart one who believes in helping nature do her best.

Your first step in cooperation is to give nature a generous supply of the materials she needs—protein, minerals, and vitamins. But watch out for extra calories—they must go somewhere and they're bound to show. And don't forget to supply the fresh air, sunshine, and rest. In return, nature will build a strong, firm, well-proportioned body you can manage smoothly and gracefully for a lifetime.

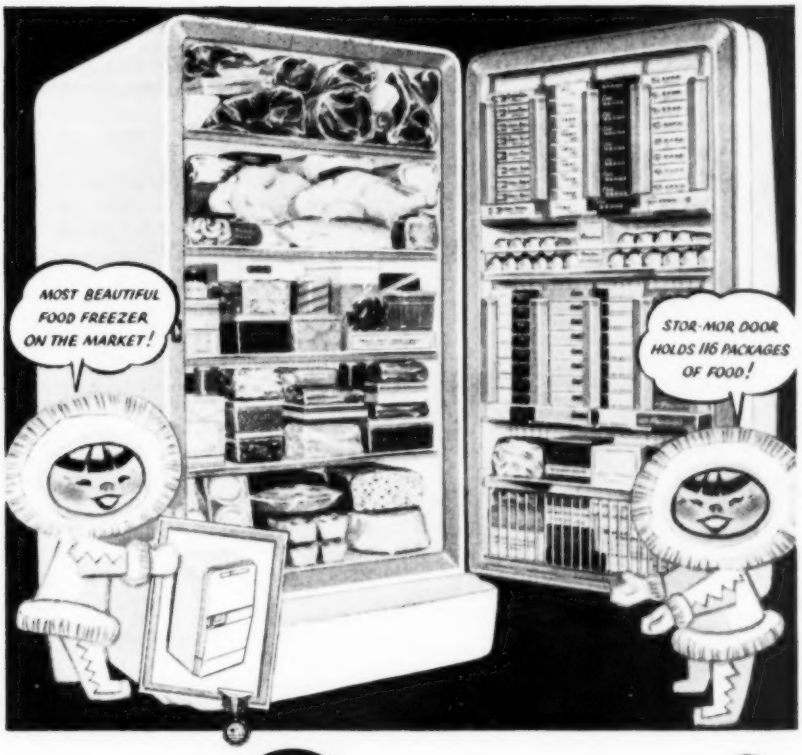
To give nature all she needs and yet not too many calories, you may want a guide to good eating. So here is a pattern for a Foundation Diet. It supplies all the food materials, except enough calories, that you need. You can add to it—but take something away and you cheat nature and yourself of essential materials.

[*Turn to page 136*

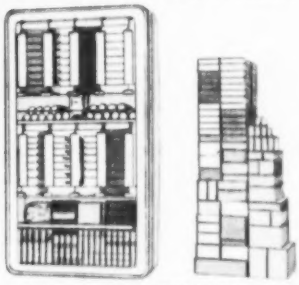
See Amana First... NEW FOOD FREEZER GUARANTEED TO OUTPERFORM ALL OTHERS -

FREEZES FASTER AT LESS COST - MAINTAINS EVEN ZERO TEMPERATURE - AND TO TOP IT ALL -

Amana Stor-Mor* Door!



Try Getting 116 Packages in the Door of Any Other Freezer!



AMANA (19.6 CU. FT.) HOLDS 116 PACKAGES!
AMANA (15.4 CU. FT.) HOLDS 79 PACKAGES!

FREEZER A (14 CU. FT.) HOLDS 36 PACKAGES
FREEZER B (13 CU. FT.) HOLDS 30 PACKAGES
FREEZER C (12.5 CU. FT.) HOLDS 21 PACKAGES

4 times more "up front" storage—The Stor-Mor Door gives you 4 times more "easy-to-see," "easy-to-reach" storage . . . almost a month's supply of food . . . the greatest amount ever possible in *any* freezer!

Dispensers serve packages automatically—at a flick of a finger! Food is served in correct order automatically—first package stored is the first package served.

Full-vision light—illuminates freezer interior. No more fumbling or searching.

Most beautiful design—gracefully styled. Exterior is rich gold and chrome. Interior features glacier green and gold trim.

Costs as little as $2.85 a week to own . . . after small down payment. See your Amana dealer today.

Amana Guaranteed to Outperform all others!

19.6 CU FT 15.4 CU FT 11.7 CU. FT 8 CU FT 14 CU FT

Freezes food faster
"Single unit" construction of seamless refrigeration tubing and aluminum shelves freezes food faster than any method known in home freezing.

Keeps food safer
6 freezing surfaces—all food is on or directly below a prime freezing surface. The Amana design creates "even zero" temperatures in every part of the freezer.

Costs less to operate
The scientific design of the Amana permits the Powerpact Freezing Unit to freeze so fast it operates only a fraction of the time required by ordinary freezers.

Amana FOOD FREEZERS

World's Largest Manufacturer of Food Freezers
Backed by a century-old tradition of fine craftsmanship

*Only Amana has the exclusive patented Stor-Mor Door. **AMANA REFRIGERATION INC., AMANA 12, IOWA**

Was I surprised!

...to find how quickly and easily we could paint with

YOU NEED no special skill to transform an old, tired-looking room into a decorator's dream with Pittsburgh's WALLHIDE *Rubberized* Satin Finish. That's because this wonderful wall paint fairly glides from your brush or roller. It dries so rapidly—without objectionable odor—you can have rooms ready for use in a few hours.

And talk about ruggedness! This new *Rubberized* WALLHIDE takes years of wear and rough usage. You can wash it again and again—even scrub off stubborn stains—and its smooth, velvet-like beauty comes up smiling every time.

So surprise your family and yourself! See how easy it is to give your rooms new beauty and charm with WALLHIDE *Rubberized* Satin Finish. Your Pittsburgh Paint dealer will be glad to show you the 151 modern, smartly-styled colors from which you can select almost unlimited color arrangements. These attractive hues are also available in SATINHIDE, Pittsburgh's new low-lustre enamel for woodwork and other trim.

40 Pages of Modern Home Decorating Ideas —FREE!

● Ask your Pittsburgh Paint dealer for a FREE copy of the new 40-page book "Color in Action." It explains how you can use the magic of color to make every room lovelier to live in as well as lovelier to look at. It also contains many helpful painting hints.

PITTSBURGH PAINTS

PAINTS • GLASS • CHEMICALS • BRUSHES • PLASTICS • FIBER GLASS

PITTSBURGH PLATE GLASS COMPANY

IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED

Your looks depend on the food you eat

From page 134

You can have that candy bar or soda after school if you don't let them replace foods you need at supper or throughout the rest of the day, and if you don't exceed your daily calorie allotment.

This Foundation Diet supplies about 1,800 calories—not enough for most teen-age girls. If you are under 16, you need 22 to 26 calories per day for each pound you weigh, depending on how active you are. If you're about as active as other girls your age, multiply your right weight by 24, and the answer will be about the number of calories you need each day. If you are very active, multiply your right weight by 26. When over 16, you need only 18 to 22 calories per pound, depending on your activity.

To make up the difference between 1,800 calories in the Foundation Diet and the total you need each day, choose additions from the lists of calorie choices.

1,800-calorie Foundation Diet

(Do not eat less than these amounts)

Breakfast

½ cup orange or grapefruit juice or whole fruit, or fresh strawberries and cataloupe in season, or tomato juice.
2 servings enriched or whole-wheat bread or cereal, or 1 slice of toast plus ½ cup of cereal.
1 teaspoon butter or margarine.
1 egg.
1 cup of whole milk.

Lunch

2 slices of enriched or whole-wheat bread.
1 teaspoon butter or margarine.
1-ounce slice of cheese, or an ounce of meat, fish, or poultry, or an egg, or 2 tablespoons of peanut butter.
1 cup of whole milk.
1 serving of fruit.

Dinner

Generous serving of meat, fish, or poultry. At least ¼ pound without waste and before cooking—any kind without lots of fat.
Small potato.
1 serving green or yellow vegetable.
1 serving raw vegetable or fruit.
1 roll or slice of enriched or whole-wheat bread.
1 teaspoon butter or margarine.
1 cup of whole milk.
Between meals, or in cooked foods, use an additional cup of whole milk. If it's in cooked foods, be sure you get a full cup. You need a total of 4 cups each day.

Calorie choices

Gravy, salad dressings, and fats, 1 tablespoon	100
Ice cream, small scoop	100
large scoop	150
Cooky, a large homemade one	100
Doughnut	125
Five-cent candy bar	200
A juicy hamburger, or hot dog, or a bowl of chili, or a sack (2 cups) of buttered popcorn	300
A piece of pie or frosted cake, an ice-cream soda, or an ice-cream sundae	350
Malt or shake	500
Soft drinks—6 ounces	75
Mustard, chili sauce, olives, pickles	15-25
A piece of unfrosted angel or sponge cake	150

"Science, as well as everyday experience, proves that proper Surround Light on an object you view—such as this printed page or a television screen—contributes measurably to eye comfort and enjoyment."

DR. MATTHEW LUCKIESH, eminent authority on illuminating engineering and consultant on lighting and visual environment.

SYLVANIA Makes the Only Television Sets that Give Your Eyes the Comfort of "SURROUND LIGHTING"

This Exclusive Use of SURROUND LIGHTING is Called

HALOLIGHT

HALOLIGHT is a translucent frame around the TV screen that is softly illuminated from the back by a specially designed fluorescent light.

HALOLIGHT makes the picture look larger and clearer. It reduces the sharp contrast between the bright screen and the surrounding darkness. The result is wonderfully restful and pleasing to your eyes.

A great step forward in viewing comfort — and only Sylvania TV has it. Another Sylvania first!

The STRATFORD – Beautiful 21" Natural Blonde Korina Console with HALOLIGHT. Also in Mahogany. Sylvania Television sets are priced as low as **$179.95**. Slightly higher West and South.

SYLVANIA
TELEVISION

HALOLIGHT is a Sylvania Trademark

Sylvania Electric Products Inc., 254 Rano Street, Buffalo 7, New York • RADIO • TELEVISION • LIGHTING • ELECTRONICS

● Now you can have four attachments for your Gehl Forage Harvester — Windrow Pickup — Mower-Bar—Regular Row Crop, *or the NEW Gehl 2-Row Attachment* for corn, sorghum and other row crops.

Save gas, time and labor by faster filling. Half the trips across your fields saves travel time and soil packing. Save wear of tractor and chopper by cutting actual operating time in half. Increase income from custom chopping.

Drop in at your Gehl dealer NOW and see the great new 1954 Gehl Chopper with the New Quick Switch from Windrow to Mower-Bar or Corn Head in only 5 minutes! See the Gehl Forage Blower with Exclusive Power Take-Off Drive for faster unloading.

See the *complete* Gehl Line—made by specialists in forage handling machinery for Half a Century. So—get "*More in '54.*" Join America's leading farmers who have made Gehl America's No. 1 Independent Chopper... No. 1 because more farmers own Gehl than any other independent Forage Harvester.

★ New Quick Switch
★ Cut Twice as Much
★ Reduce Field Travel
★ Save Operating Time
★ Increase Custom Income
★ Motor or PTO Available

GEHL offers a toast to your health, happiness and prosperity: —A glass of milk with every meal—for every member of the family!

Gehl Chopper with Mounted Motor does a great job two rows at a time.

FREE! Write Today...

GEHL BROS. MFG. CO.
Dept. MB-501, West Bend, Wisconsin

Please send me information on: CHECK

New Gehl 2-Row Attachment with New "Quick Switch" ☐
"Streamlined Forage Harvesting" ☐
"How to Rate a Chopper" ☐

Name.....

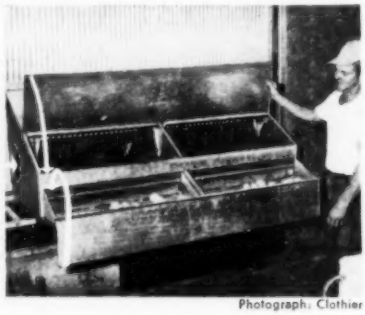
Street or R.F.D.....Town.....

State.....Acres Farmed.....

Poultry

Hen lays egg—that's last she sees of it

Laying eggs isn't like it used to be. No longer does the hen get to sit on her eggs after laying them. A new type of nest automatically rolls them away as soon as they are laid. (See picture below.)



Photograph: Clothier

The egg is dropped on an inclined screen in the large laying compartment. It then rolls forward to the egg-holding compartment. A curtain hides the eggs from the hens.

Taking the eggs away from the hens as soon as they are laid has several advantages: (1) Egg breakage is reduced; (2) eggs stay cleaner as they are kept away from straw and manure; (3) cooling starts immediately; (4) egg-holding compartment makes gathering easier.

• • • •

"Blue bottom" in chicks? Antibiotics may be cause

Young chicks fed antibiotics often show blue color in their abdominal skin.

But you needn't be alarmed if "blue bottom" shows up in your chicks, says Sam F. Ridlen, poultry specialist at the Illinois Experiment Station.

It is not a disease, and it doesn't hurt the chick in any way. Digestive organs of young chicks fed antibiotics enlarge and push against the skin. The result is a blue-bottomed chick.

As the chicks grow older, fat deposits will hide the intestines, and the color will disappear.

• • • •

Stop chick hemorrhages—add alfalfa meal to ration

Are *your* chicks bleeding to death?

If so, you'd better take another look at the ration you're feeding.

University of Illinois poultry researchers recommend that you feed not less than 5 percent of dehydrated alfalfa meal to your chicks to prevent internal bleeding.

If you still have trouble, add about 5

pointers

grams of vitamin K to each ton of feed.

They also suggest that you feed *no more* than the recommended levels of antibiotics, growth stimulators, or coccidiostatic drugs to your chicks.

Internal bleeding in poultry showed up about 3 years ago, but this is the first year it has become serious. Eastern producers have reported losses as high as 40 percent.

Tests conducted by H. M. Scott, Illinois Experiment Station, showed that some of the supplements had no effect. Others held up the clotting time of blood for as long as 60 minutes.

Adding vitamin K to the supplemented rations brought the blood-clotting time back to normal—1 to 4 minutes.

Scott believes the fault lies with modern rations that contain antibiotics and very little green feed. Action of the drug in the intestinal tracts could stop the growth of bacteria which help in the natural production of vitamin K.—*R. A. J., Illinois.*

• • • •

Now we can detect Newcastle in two hours

A new laboratory test for Newcastle disease, giving a diagnosis in two hours, has been developed at the University of Wisconsin.

Wisconsin veterinary scientists have modified the former testing precedure so that it is no longer necessary to incubate the Newcastle virus in eggs. Formerly, lung-tissue extract from suspected birds was injected into fertile eggs which were incubated for several days. Then the fluid from the egg was added to a salt solution containing red blood cells.

The new test is essentially the same. However, after the lung tissue is removed, it is frozen quickly and then ground or pressed to obtain the tissue extract. This extract is added directly to a salt solution with red blood cells, instead of incubating in fertile eggs.

• • • •

Small farm flocks more than pay for keep

A survey of over 300 farm flocks in Grant County, Wisconsin, shows the smaller farm flock will return some money over feed costs.

Over 130 flocks in this survey were made up of less than 100 hens. These flocks averaged about $150 over feed costs. Eighty of the flocks had just over 200 hens. These flocks returned $434 above feed costs.

Number of eggs per hen is important, regardless of the flock size. Flocks producing an average of 58 eggs per hen showed only $19 per flock return over feed costs. Flocks producing 195 eggs per hen, showed a profit of over $400.

Aluminum is the highest quality farm roofing you can buy...yet it's the lowest in cost!*

Compare these average costs for completed construction of new buildings:

Kaiser Aluminum Roofing .019" (Gauge 26)—2½ x ½ or 1¼ x ¼ (on 2" x 4"—18" O.C.)

Cost (Roofing with laps)	$16.90
Labor (1 hr./Sq. @ $2.00/hr.)	2.00
Nailing Strips (2 x 4 on 18" centers)	5.35
Labor for Lumber (⅔ hr./Sq.)	1.33
Nails (aluminum)	1.00
(PER SQUARE PRICE APPLIED) Total	$26.58

Kaiser Aluminum Roofing .024" (Gauge 24)—2½ x ½ or 1¼ x ¼ (on 2" x 4"—2'-0" O.C.)

Cost (Roofing with laps)	$19.20
Labor (1 hr./Sq. @ $2.00/hr.)	2.00
Nailing Strips (2 x 4's on 2'-0" centers)	4.60
Labor (½ hr./Sq.)	1.00
Nails (aluminum)	1.00
(PER SQUARE PRICE APPLIED) Total	$27.80

Kaiser Aluminum Roofing .019" (Gauge 26)—2½ x ½ or 1¼ x ¼ (on 1 x 6 Nailers Spaced 12" O.C.) with Building Paper

Cost (Roofing with laps)	$16.90
Labor (1 hr./Sq. @ $2.00/hr.)	2.00
Lumber Deck (1 x 6 on 12" centers)	5.60
Labor on Wood Deck (1 hr./Sq. @ $2.00)	2.00
15 lbs. Building Paper	1.00
Labor on Paper (1 hr. @ $2.00)	2.00
Nails (aluminum)	1.00
(PER SQUARE PRICE APPLIED) Total	$30.50

Asbestos Shingles

Cost (shingles)	$17.13
Labor (3 hrs./Sq. @ $2.00/hr.)	6.00
Lumber (Nailers—Solid 1 x 6)	11.20
Labor on Deck (2 hrs./Sq.)	4.00
15 lbs. Roll Roofing (Per Square)	1.00
Labor on Paper	2.00
Nails	1.00
(PER SQUARE PRICE APPLIED) Total	$42.33

Asphalt Shingles (210 lbs.)

Cost (shingles)	$ 8.50
Labor (3 hrs./Sq. @ $2.00/hr.)	6.00
Nailing Strips (Lumber 1 x 6 Solid)	11.20
Labor on Deck (2 hrs./Sq.)	4.00
Labor on Paper	2.00
15 lbs. Roll Roofing (Per Square)	1.00
Nails	1.00
(PER SQUARE PRICE APPLIED) Total	$33.70

No. 1 Red Cedar Shingles (Clear)

Cost (shingles)	$19.00
Labor (3 hrs./Sq. @ $2.00/hr.)	6.00
Nailing Strips—Lumber (1 x 6 on 12" centers)	5.60
Labor on Deck (1 hr.)	2.00
Nails	1.00
(PER SQUARE PRICE APPLIED) Total	$33.60

As these average figures show, you can save up to $15.75 per 100 square feet on *any* new farm building by using Kaiser Aluminum Roofing. On new buildings this adds up to between $105 and $525! Labor and material costs vary, of course, in different localities.

These quality advantages make Kaiser Aluminum Roofing 1st Choice for Thousands of Farmers:

- **Reflects hot sun rays—keeps interiors up to 15° cooler. Livestock thrive.**
- **Low upkeep. No painting. No ugly red rust stains. Corrosion-resistant.**
- **Durable. Resists hail, wind, snow loads.**
- **Light weight. Easy to erect; often by one man. Additional savings!**
- **Winter insulation. Holds heat by reflecting it inward.**
- **Handsome appearance during a long life.**

Before *you* build, have a talk with your building materials dealer. He'll explain how the many advantages of light, strong, high-grade Kaiser Aluminum can give you years of trouble-free service. He'll also be glad to help you estimate your requirements.

***Roll Roofing (90 lbs. per Square)—Included here simply to show that even minimum quality roofing is only $1.63 per square cheaper than maximum quality Kaiser Aluminum Roofing.**

Cost of Roll Roofing	$ 2.75
Labor (3 hrs./Sq. @ $2.00/hr.)	6.00
Sheathing (Solid 1 x 6 Lumber)	11.20
Labor on Deck (2 hrs./Sq.)	4.00
Nails	1.00
(PER SQUARE PRICE APPLIED) Total	$24.95

Estimated applied prices (retail) per square typical roofing materials using variable spacings of wood deck in building construction.

Kaiser Aluminum

The quality roofing for better farm buildings

NEW! low-cost building plans

SEVEN NEW BUILDING PLANS specifically designed by farm building specialists help you benefit from all the advantages of Kaiser Aluminum Roofing.

Each plan is a *complete set of blueprints*—includes section details, elevations, bill of materials!

CHECK THE PLANS YOU WANT on the coupon and mail it today! Also be sure to check for your valuable *free* folders, entitled "Estimating Guide for Aluminum Roofing" and—"How to Apply Aluminum Roofing."

____I enclose $_____ to cover the cost of the new building plans checked below.

____Send building plans C.O.D.

____Stable Barn ($1) ____General Purpose Barn ($1)
____Machine Shed ($1) ____Broiler-Layer House ($1)
____Range Shelter (25¢) ____Poultry Range Shelter (25¢)
____How to Apply (FREE) ____Grade A Milking Parlor ($1)
____Estimating Guide (FREE)

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FARM BUILDING PLAN SERVICE
4218 Kaiser Building, Oakland 12, California

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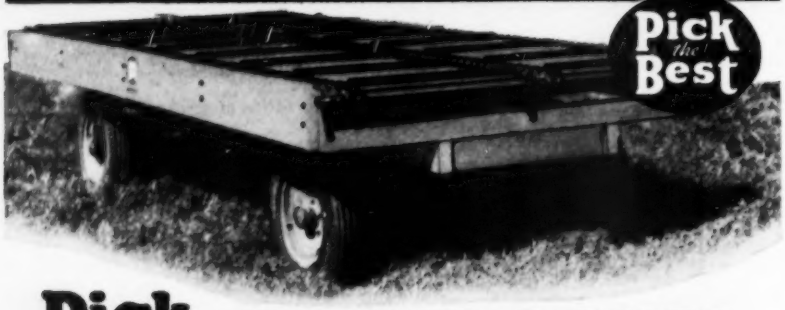
BE WISE . . . ECONOMIZE



Pick SELF UNLOADING **POWER BOXES** FOR HANDLING ALL CROPS

MODEL 7 (7' x 14') NOW AVAILABLE IN SEVERAL STYLES!

1. WITH OR WITHOUT P.T.O.
2. AS FLAT RACK
3. WITH 6' SIDES
4. HARDWARE AVAILABLE FOR COMPLETE BOX

FREE WRITE TODAY NO OBLIGATION

OTHER MODELS TO FIT YOUR SPECIAL NEEDS

PICK MANUFACTURING CO.
Dept. S. F. 154, West Bend, Wisconsin

Without obligation, rush complete details on the new money saving Pick farm equipment.

Name .....
Town .....
R.F.D. ..... State .....

Decorating advice. Stores offering **Successful Farming's** home planning service are listed on page 133. Visit store nearest you for help with decorating problems.

Twin Draulic

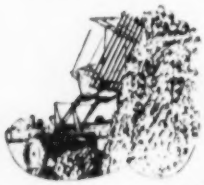
LOADERS

Load snow, manure Clean barn lots and roads

FIT ALL FARM TRACTORS
(row crop or 4-Wheel)

Get more work out of your tractor. Save time and heavy work. **Twin-Draulic Loaders** with exclusive central mounting has balance for better traction, greater visibility and easier operation. Put on with just 4 bolts. Has **Manure Bucket, Bulk Shovel, Dozer blade, Grapple fork** and **extension boom, Push-off Stacker,** etc. Give Tractor Model when writing for low prices.

FREE
Send tractor Model for low price and FREE circular.

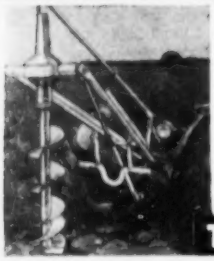


Push-off Stacker puts up hay fast.

Liquid Fertilizer
SPRAYERS **Also kill weeds and insects**

New **TWIN-DRAULIC Tractor mounted or trailer mounted SPRAYERS** handle DDT, 2-4D and liquid fertilizer because of its completely non-corrosive construction. Covers wider area. Boom swings through gates. High pressure PTO pump. Fits all tractors. **Circular FREE.**

POSTHOLE DIGGER **Easy Fencing**



Save work and time in fencing. **New,** simplified construction digs faster. One man can mount the Twin-Draulic on the tractor in less time than digging one posthole by hand. This LOWER PRICED digger is what farmers have been waiting for. One man operated from tractor seat. Digs **40 in. hole** (4 to 18 inches in diameter) **in 30 seconds.** Fits any farm tractor with built in hydraulic system. **Write for free circular** and give model of tractor.

Distributors

Write for name of nearest dealer.

INDIANA
Lehr Equipment Sales, Richmond

KANSAS
Price Bros. Equipment, Inc., Wichita

MICHIGAN
Isbell Seed Co., Jackson

MISSOURI
Mid-Continent Sales, Inc., St. Louis 18

NEBRASKA
Dultmeier Sales Co., Omaha

NEW YORK
John Reiner & Co., Long Island City

NORTH CAROLINA
Turner Mfg. Company, Statesville

PENNSYLVANIA
S. P. Lutamus Supply Co., Philadelphia 3

TENNESSEE
Southeastern Farm Supply, Inc., Chattanooga

VIRGINIA
Todd Co., Inc., Norfolk 10

WISCONSIN
E. M. Walgenbach Co., Fond Du Lac

TWIN-DRAULIC, Inc. • Laurens, Iowa

Farmer's Washington

From page 18

Funds for these payments would come from wool-tariff revenues and a tax imposed at some point during the handling of wool by processors.

Diverted acres—Everyone seems to agree that your acres diverted from major crops in the crop-allotment programs should be controlled. But no one seems to be willing to try it until some later date. For plans now under consideration, see page 42.

Is it a plan? Drafters of the recommendations look upon their report as a constructive discussion of legislative changes—not a hard-and-fast plan. *The general aim seems to be deflationary*—it is an effort to achieve a "sounder" over-all approach to the problems of agriculture, even though this may mean a lower level of guaranteed prices.

Alternatives. In contrast to the sometimes-vague recommendations of the commission, individual farm groups are coming up with recommendations which may have more appeal in Congress.

For instance, the National Milk Producers Federation will present to Congress a "self-help" program for dairy producers. A federal dairy stabilization board would be created to administer the plan. Farmers would pay a stabilization fee on the first sale of their products. The funds so raised would be used to buy up surpluses and attempt to maintain a stabilized price. The price-stabilization corporation would get its start with a $500 million loan from the Commodity Credit Corporation.

Perishables. Apparently nothing resembling the old Brannan Plan for direct payments to producers of meat and other perishable products has been seriously considered. Improvements would be sought in laws authorizing marketing agreements for fruits and vegetables. It *is* expected the final program put in force in 1954 *will involve a continuation of emergency buying and aid.*

Expanding markets. Lying behind the present thinking on a new program is the concept of expanding the farmer's markets. This concept has run up against some harsh realities.

At the last session of Congress the Farm Bureau backed a plan to dispose of surpluses through the Mutual Security Administration, which used to be known as the Marshall Plan. Products were to be purchased with Mutual Security funds and sold abroad for local currencies. But it hasn't worked out very well. After several months, M.S.A. officials managed to sell $25 million worth of farm products. *The fact seems to be that foreign countries are in no position to expand their purchases of United States farm products,* in whatever form these purchases may be made. This is a disheartening fact. **END**

MORE for Your Alfalfa Dollar

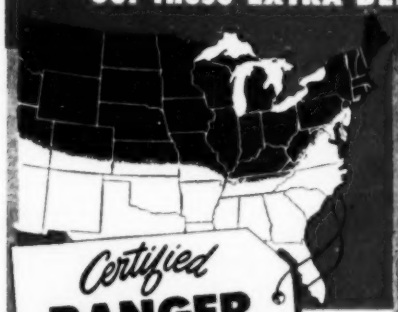
Certified Ranger . . . Certified Buffalo . . . Certified Atlantic—*superior* alfalfas developed by leading state experiment stations and the USDA—now deliver *improved yields and performance* throughout their adapted areas. In the last two years their use has more than doubled. They are now planted on one-fourth of the alfalfa acreage in the United States.

THESE Certified ALFALFAS

1. Certified Ranger and Certified Buffalo are *winter-hardy* and *wilt-resistant* in their adapted areas.
2. Certified Atlantic has led in more yield trials than all other available varieties in their adapted areas.
3. Certified seed of Ranger, Buffalo and Atlantic will give uniform superior performance year after year . . .

SEED SOURCES ARE DEPENDABLE

Get these EXTRA BENEFITS . . . in these RECOMMENDED REGIONS



Certified RANGER
Recommended by 26 Experiment Stations

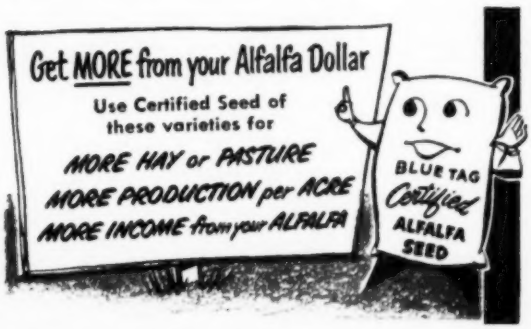
Meets the needs of northern farmers for a wilt-resistant winter-hardy variety. As a result—*more farmers plant Certified Ranger than any other variety.* Certified Ranger continues to produce high yields . . . 2½ to 4 tons per acre, per year . . . after wilt susceptible alfalfas have died out.

Certified BUFFALO
Recommended by 20 Experiment Stations

A hardy wilt-resistant alfalfa in the central growing region. Has the good qualities of Kansas Common (from which it was developed) PLUS *wilt-resistance and added dependability.* Recovers rapidly after cutting. Has same yield advantage as Ranger over wilt susceptible varieties.

Certified ATLANTIC
Recommended by 17 Experiment Stations

A high-producing variety with good seedling vigor. HAS LED IN MORE YIELD TRIALS THAN ANY OTHER AVAILABLE VARIETY. High yields the first year make Certified Atlantic excellent for short rotations in much of the Corn Belt. Certified Atlantic is winter-hardy in its adapted area.



SEE YOUR DEALER NOW!

Place your order now for the varieties you want. Then you can be sure your dealer will have your seed at planting time. For more information see your county agent or farm adviser.

Certified Alfalfa Seed Council
Box 8169, Chicago 80, Illinois

Watch for these New Varieties as Seed Becomes Available:
Certified Narragansett • Certified Vernal • Certified Williamsburg

STOP PAIN INSTANTLY

COMBAT INFECTION PROMOTE HEALING

WITH SOOTHING

Campho-Phenique

(PRONOUNCED CAM-FO-FIN-EEK)

USE IT FOR

FEVER BLISTERS COLD SORES, GUM BOILS

Not only do fever blisters heal faster, but the same thing happens when Campho-Phenique is used on cold sores, gum boils. Wonderfully soothing too, for minor burns, poison ivy, itching of insect bites. And Campho-Phenique is a highly effective, pain-relieving antiseptic for minor cuts and scratches from paring knives, can openers, tin cans, etc.

Used on pimples, Campho-Phenique helps prevent their spread and re-infection.

CORNS GO FAST!

Enjoy quick relief and speedily remove aching corns with soothing, cushioning, protective, world-famous Dr. Scholl's Zino-pads!

Dr. Scholl's Zino-pads

EXPECTING A BABY?

Wise mothers-to-be use gentle time-tested Mother's Friend to soothe and ease the pain and discomfort of tight, dry, stretched skin during pregnancy. Simply rub or gently massage Mother's Friend onto the abdomen to help keep the skin soft and supple. Relieves aching back and leg muscles, too.

COMMENDED BY THE PARENTS' MAGAZINE

Available at drug counters everywhere

For Expectant Mothers

MOTHER'S FRIEND

Photographs: Stanley, Bowman

Sunburst Salad

For those busy days . . .

Salads you can fix

Fresh out of salad ideas? Then here are 11 good ones that will give your midwinter meals more pep. You can whip them together in 10 minutes or less and still have the attractive, nourishing salads your family should have.

Health Glow Salad (Makes 1 salad)

3 orange slices
Salad greens
3 soft prunes, pitted
2 tablespoons cottage cheese
3 walnut halves

Peel oranges with a sharp knife. Cut into slices and arrange on salad greens. Stuff prunes with cottage cheese; top with walnut halves. Arrange on orange slices.

Jig-time Salad

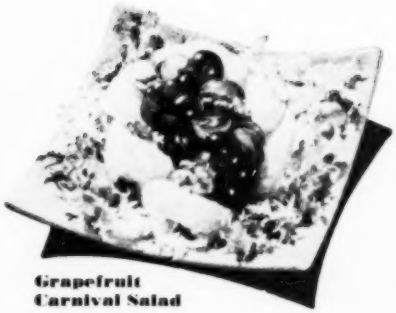
In-a-hurry Pear Salad (Makes 6 salads)

12 pear halves, drained
1 3-ounce package cream cheese
2 tablespoons pear syrup
Paprika
12 pretzel sticks
Salad greens

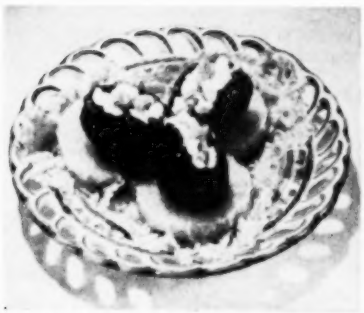
Put pear halves together with cream cheese softened with pear syrup. Sprinkle paprika on one side of pear for color. Add 2 pretzel sticks to each salad for stems. Arrange on salad greens.

[*Turn to page 144*

Ranch Salad ▸



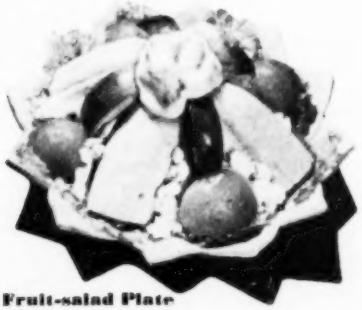
Grapefruit Carnival Salad



Health Glow Salad

in a hurry

In-a-hurry Pear Salad



Fruit-salad Plate

New Post's Wheat Meal gives your family something they may lack!

New Post's Wheat Meal is enriched with calcium—a mineral the U.S. Dept. of Agriculture says is lacking in many diets. One ounce of this delicious new cereal contains ⅓ the minimum daily calcium need—more of it than any other cereal hot or cold! And this is a *whole-wheat* cereal with a wonderful nut-like flavor!

Stronger bones and sound teeth are what the child can boast of whose balanced diet is liberal in calcium. New Post's Wheat Meal helps give your child the calcium he needs in a hearty cereal he'll love!

A more active life is what you'll feel like enjoying when your adequate diet includes calcium-rich foods! And calcium-enriched Post's Wheat Meal is as smooth as any hot cereal made. Now's the time to enjoy it!

- ★ Cooks instantly!
- ★ Creamy smooth!
- ★ Nut-like flavor!

Product of General Foods

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Up to 30 times more disinfectant power than bleaches*...

YET AMAZING NEW "LYSOL" NEEDS NO POISON LABEL!

Use It With Confidence For Every Disinfectant Need

New "Lysol" brings you the greatest improvement in its history! Now "Lysol" needs no poison label, yet it has the same disinfectant power as ever!

This scientific achievement makes "Lysol" handier than ever! New "Lysol" gives you germicidal protection no bleach or pine-oil product can offer!

New "Lysol" Has A Lighter, Cleaner Smell!

You'll be pleasantly surprised at the lighter, cleaner odor of the new "Lysol." You'll be pleased, too, that the odor vanishes in a few minutes after cleaning. But don't let that fool you. New "Lysol" Brand Disinfectant kills disease germs just as effectively as ever!

GENTLE TO HANDS!

You'll be glad too, that new, improved "Lysol" Brand Disinfectant in proper solution, is truly gentle to hands. Used as directed it will not redden or irritate the skin! So use new, improved "Lysol" whenever, wherever you clean without fear of rough red hands.

Effective 7 Full Days!

New "Lysol" works longer for you—far longer than bleaches. When tested against two leading bleaches, the effect of "Lysol" lasted for 7 full days while the effect of the bleaches lasted *less* than two hours in tests against a variety of germs including streptococci (involved, for example in scarlet fever and strep throat) and typhoid germs, as well as fungus involved in "Athlete's foot."

New, Improved "Lysol" Is The Dependable Germicide Of Many Uses!

Baby's Room. Scrub with "Lysol" to help keep floor, furniture, playpen and diaper pail "hospital clean."

Woodwork. Use "Lysol" to guard against disease germs wherever hands touch—stair-rails and doorknobs.

Kitchen. Wash floors, walls, sinks, counter, stove, refrigerator with "Lysol." Won't harm paint, linoleum or enamel.

Removes rings from bathtubs . . . and "Lysol" keeps bowl, seat, wash basin, walls and floor "hygienically clean."

*THE UNITED STATES TESTING COMPANY CONDUCTED RESEARCH ON NEW "LYSOL"

The United States Testing Company (Test No. 36133, Nov. 27, 1951) proved that new "Lysol" is up to 30 times more effective than five leading bleaches when tested by a recognized method against typhoid germs (Salmonella typhi) in the presence of standard organic matter.

KILL DISEASE GERMS AS YOU CLEAN HOUSE WITH NEW IMPROVED "Lysol" Brand Disinfectant REG. U.S. PAT. OFF.

COMMENDED BY THE PARENTS' MAGAZINE

Salads in a hurry

From page 142

Luncheon Salad (Makes 6 salads)

6 pineapple slices, drained
Salad greens
1 3-ounce package cream cheese
2 tablespoons mayonnaise or salad dressing
Few grains salt
1 cup diced celery
1 tablespoon lemon juice
¼ cup chopped walnuts
6 maraschino cherries

Arrange drained pineapple slices on salad greens. Blend cream cheese and mayonnaise. Fold in salt, celery, and lemon juice; spoon on top of pineapple slice. Sprinkle with nuts and top with a cherry.

Fruit-salad Plate (Makes 1 salad)

½ cup large curd cottage cheese
Salad greens
1 banana, cut in quarters
4 apricot halves
4 apple wedges
½ 3-ounce package cream cheese
½ tablespoon lemon juice
1½ tablespoons currant jelly
½ cup heavy cream, whipped

Place cottage cheese in center of salad greens. Cut banana in quarters; arrange over cottage cheese. Place apple wedges and apricots between banana quarters. Top with *Fruit Dressing:* Beat cream cheese, lemon juice, and currant jelly together. Fold in whipped cream. Makes enough for 4 to 6 salads.

Jig-time Salad (Makes 2 salads)

2 pineapple slices, drained
Curly endive
2 peach halves, drained
2 tablespoons salad dressing or mayonnaise
1 teaspoon peach syrup
2 maraschino cherries

Place pineapple slice on curly endive. Top with a peach half, cut side up. Fill center of peach half with salad dressing mixed with peach syrup. Top with cherry.

Grapefruit Carnival Salad
(Makes 6 to 8 salads)

3 to 4 grapefruits cut in sections
1½ cups red grape halves
Curly endive
Walnut halves
⅛ cup sugar
½ teaspoon dry mustard
½ teaspoon paprika
½ teaspoon celery seed
⅛ teaspoon salt
3 tablespoons strained honey
2½ tablespoons vinegar
1½ teaspoons lemon juice
½ teaspoon grated onion
½ cup salad oil

Place grapefruit sections and grapes on curly endive. Sprinkle with walnut halves. *Dressing:* Combine all ingredients except salad oil. Gradually add salad oil, beating with a rotary beater after each addition.

Ranch Salad (Makes 3 servings)

½ head lettuce
¼ cup diced celery
½ cup strips of canned luncheon meat
3 strips crisp bacon, crumbled
1 hard-cooked egg
½ teaspoon salt
3 tablespoons French dressing

Tear cold, crisp lettuce into a salad bowl. Toss with remaining ingredients.

Snowball Salad (Makes 4 salads)

4 slices pineapple, drained
Salad greens
4 green pepper rings
1 3-ounce package cream cheese
2 tablespoons pineapple syrup
2 tablespoons shredded coconut, cut in short pieces

Place drained pineapple slices on salad greens. Place green pepper rings on pineapple. Fill centers with cream cheese softened with pineapple syrup. Sprinkle cheese with coconut.

Midwinter Salad Bowl
(Makes 8 to 10 salads)

1 small head cauliflower
1 small head lettuce
½ cup thinly sliced onion
½ cup sliced stuffed olives
⅔ cup crumbled blue cheese
¾ cup salad oil
¼ cup vinegar
½ teaspoon sugar
¾ teaspoon salt
¼ teaspoon dry mustard
1 or 2 cloves garlic, crushed

Separate cauliflower into flowerets. Break lettuce into pieces. Combine with onion, olives, and blue cheese. Toss with *Garlic Dressing:* Combine salad oil, vinegar, sugar, salt, dry mustard, and garlic. Shake thoroughly.

Cottage-cheese Salad Bowl
(Makes 4 to 6 servings)

2 cups chopped celery
½ cup diced green pepper
1½ cups cottage cheese (large curd)
1 teaspoon salt
⅛ teaspoon pepper
½ cup minced onion
¼ cup mayonnaise or salad dressing
Lettuce
Carrot curls

Combine celery, green pepper, cottage cheese, salt, pepper, and onion. Mix well. Line a salad bowl with lettuce. Turn cottage-cheese mixture into bowl. Garnish with carrot curls.

Sunburst Salad (Makes 4 salads)

2 avocados, sliced thin
3 oranges, cut in segments
Salad greens
4 maraschino cherries
¼ cup sugar
Dash of salt
Dash of dry mustard
2 tablespoons vinegar
½ cup salad oil

Arrange avocado slices and orange sections on salad greens. Top with a cherry. Serve with *Clear Fruit Dressing:* Mix all ingredients except salad oil. Add salad oil gradually. Beat with a rotary beater after each addition. **END**

Orchard

An orchard should have pears and plums
To ripen when September comes;
An orchard should have peaches sweet
And apples ripe and good to eat.
It should be carpeted with grass
And all the little winds that pass
Should steal a fragrant breath for those
Who never walk down orchard rows.
—*Lalia Mitchell Thornton*

New...nothing else like it!

10 cubic foot self-defrosting refrigerator

Manitowoc 2-zone

11½ cubic foot 0° to 20° below freezer

all the refrigerator space you need! . . . freezer space for over 100 meals!

Here's kitchen convenience you've never dreamed of . . . a complete food storage center in one appliance. It's not just a refrigerator with a freezer compartment, but truly a family-size refrigerator-freezer combination. See the wonderful new *2-ZONE* soon — there's nothing else like it!

See the new Manitowoc Freezers, too!

- Takes only 2½ by 3 ft. of kitchen floor space
- Waist-high refrigerator puts everything within easy reach
- All the temperature control of a separate freezer
- Beautifully styled in colorful Frost-Mint trim

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Town .....
R.F.D. ..... State .....

Quick healing BAG BALM has been famous for over 50 years as the safe, antiseptic medication for injured teats and udders. Stays on, spreads right. Great for massage of Caked Bags. Why gamble — insist on *genuine* BAG BALM in the big 10-oz. can at your local dealers.

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Successful shortcuts

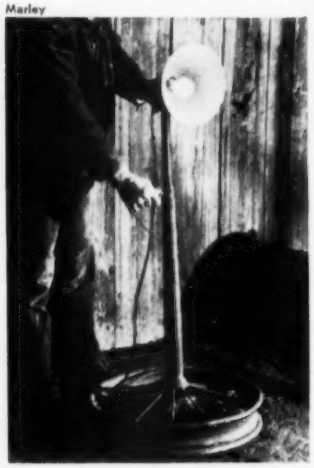
Build them yourself, save time and dollars

Tractor power-loader was used ▶ as a handy elevator by Jesse Scott, Garden City, Kansas, when he dug an 18' hole for his cesspool.

Scott rigged up a set of pulleys so he could control the loader from the bottom of the pit by pulling on ropes. He chained a 50-gallon barrel to the scoop, then rode the barrel down to the bottom of the pit. After filling barrel, he rode it back to the top of the pit for unloading.

Photograph: Curtis

Marley



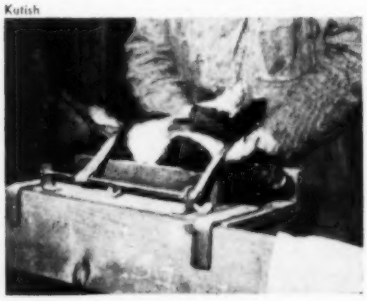
◀ **Portable stand** does double duty as a tank heater and handy floodlight for C. J. Kimbro, Fillmore, Illinois. When equipped with infra-red bulb and placed in water tank, the stand sits solidly, and can be adjusted to desired height for keeping hole thawed in ice. Bracket rotates

Doughty

On-the-spot welding by W. Clair Smith, Jesup, Iowa, is made possible by mounting a 28-volt generator and rheostat on his tractor. Generator is beneath hood.

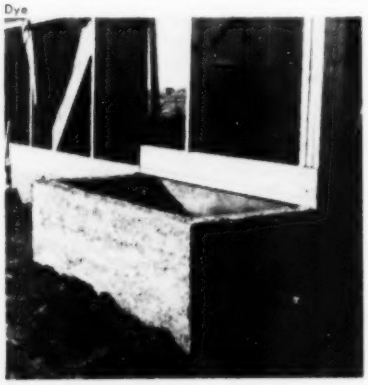
A chain sprocket on the belt-pulley shaft drives the generator. Welding cables are connected to the rheostat. Sprocket is easily removed for belt-pulley work.

Kutish



Holding tray for castrating pigs saves time for Dwight Cartwright, Boone County, Iowa. Tray slips over edge of pen, is held by two iron supports. Straps hook on the side of the table near Cartwright's body

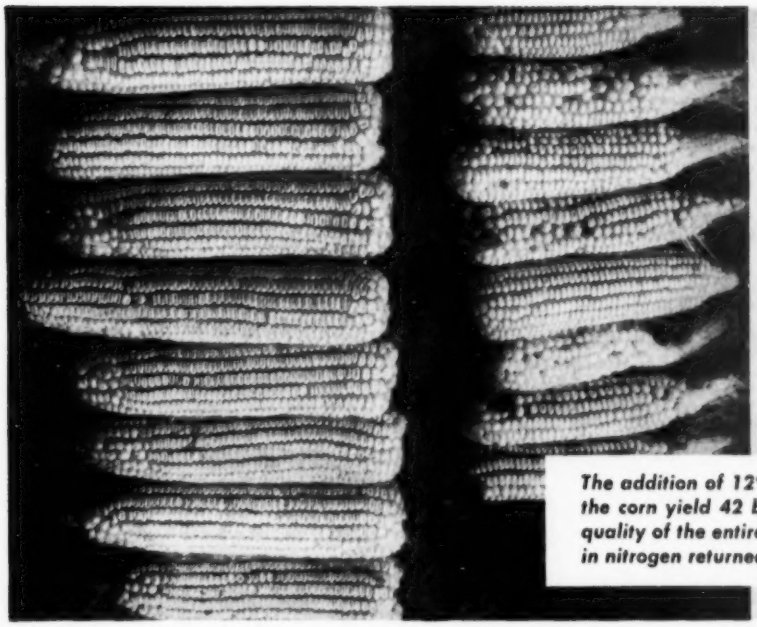
Dye



Concrete water tank is almost a bonus ▶ for Leslie Frieden, Barton County, Missouri. Extensions were added to the forms used to pour foundation for calf shed.

Tank is located near a water pipe used for other purposes, cuts plumbing costs.

ARCADIAN® 12-12-12
is rich in nitrogen



Nitrogen Pays $63 for $15

Side-by-side tests prove the value of nitrogen in producing bigger yields of better quality corn. The corn at right received the equivalent of 833 pounds of O-12-12 per acre plowed down before planting and produced 57 bushels of shelled corn per acre. The corn at left received the equivalent of 833 pounds of 12-12-12 per acre plowed down before planting and produced 99 bushels of shelled corn per acre. Both plots also received the same starter fertilizer.

The addition of 12% nitrogen to the fertilizer increased the corn yield 42 bushels per acre...and improved the quality of the entire crop. An investment of $15 per acre in nitrogen returned $63 in extra corn.

CORN needs abundant nitrogen to produce big yields. ARCADIAN 12-12-12 Granulated Fertilizer contains four times as much nitrogen as 3-12-12. About half the nitrogen is quick-acting nitrate and the remainder is long-lasting ammonia for graduated feeding of crops.

It will pay you to produce bigger yields of corn at lower cost per bushel. Give each acre 500 to 1,000 pounds of ARCADIAN 12-12-12, plowed under, disked in or banded deeply. ARCADIAN 12-12-12 keeps corn green and growing throughout the season and produces an abundance of well-filled, plump ears. The crop matures earlier and yields many more bushels of better quality corn with a much higher protein content.

ARCADIAN 12-12-12 offers you many labor-saving and money-making advantages...lower freight rates per unit of plant food... fewer bags to haul and handle and fewer trips across your field per unit of plant food put into your soil. Every uniformly-sized granule is a complete, balanced fertilizer containing 12% nitrogen, 12% phosphoric acid and 12% potash...*and no filler!*

Packed in easy-to-lift, 80-pound bags, ARCADIAN 12-12-12 is non-caking, non-dusting and free-flowing in all types of fertilizer distributors. Made by a newly-developed process, the small, firm granules stay in excellent condition for long periods in storage. ARCADIAN 12-12-12 is an excellent fertilizer for corn and other crops. Ask your County Agent or Experiment Station Agronomist!

Contact your Arcadian 12-12-12 distributor or write us for the name of your nearest distributor. Buy your Arcadian 12-12-12 now and store it on your farm until you need it. The supply is limited!

FREE
Memo Book

To obtain your FREE copy of this handy memo and a pamphlet on ARCADIAN 12-12-12, simply fill out and mail the coupon.

NITROGEN DIVISION, P. O. Box 98, Ironton, Ohio
Without charge or obligation, please send me free ARCADIAN 12-12-12 Memo Book and Pamphlet.

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ADDRESS _____

MY FERTILIZER DEALER'S NAME _____

ADDRESS _____

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Nitrogen Division
ALLIED CHEMICAL & DYE CORPORATION
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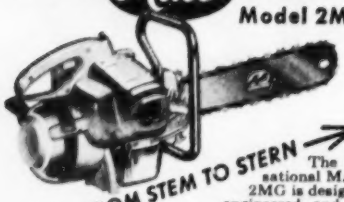
IT'S Mall BUILT
Model 2MG



FROM STEM TO STERN
The sensational MALL 2MG is designed, engineered, and produced *ALL BY MALL*.
Men who make a living with chain saws know that for cutting more timber in less time, no other saw can touch the MALL 2MG.

AMERICA'S FINEST CHAIN SAW

Newly Improved

New Balanced-Performance 5 h.p. Engine—New Improved Carburetion—New Fully Automatic Chain Oiler—PLUS dozens of other important features make the MALL 2MG an outstanding value!

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the way thousands of physicians and dentists recommend.

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Turns snow, sleet or rain. Seams triple sewed with rotproof thread. Grommets securely anchored in triple canvas. Your name on your Fultex protects it against loss. Card for ordering name plate packed with Fultex Tarp. Sold by good dealers everywhere.
TARP OF 1000 USES
WRITE for free folder showing correct tarp sizes for trucks, machinery, etc., and how to increase farm profits. Please give name of your dealer.
Fultex BAG & COTTON MILLS, ATLANTA, GEORGIA

How to Fix basement

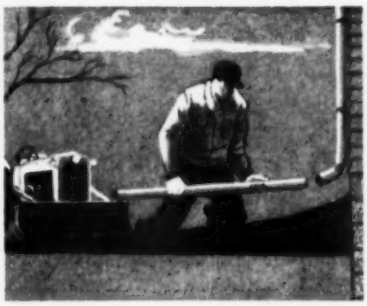
By Francis Cowan

You needn't let a moisture problem prevent your turning basement space into a recreation room, spare bedroom, or office, as shown on pages 48 and 49.

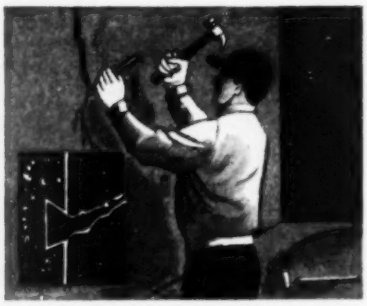
A water *seepage* problem can be handled—if the water table isn't too high—by the methods illustrated here. Otherwise, you may have to place a tile line around the footing.

If your problem is water *condensation*, you can cover cool walls, floors, and pipes with insulating material. Or, you can invest in an electric dehumidifier to remove water from basement air.

Keep water out of basement

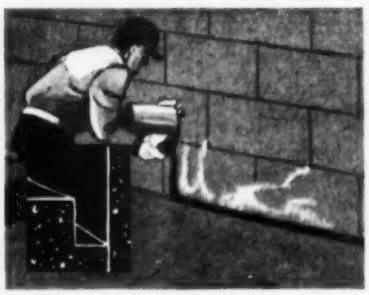


Diverting water away from foundation reduces seepage through basement walls. Grade up around the foundation, use eaves troughs, or downspout extensions



Clean out cracks to depth of ¾" to ½" wide, in shape of inverted V, with hammer, cold chisel. Then scrape, wire-brush, wash off any loose mortar, dirt from areas

Floors leaking at edge



Chisel out a groove 1½" to 2" deep around edge of floor where water seeps in. Seal it by carefully pouring hot tar or mixture of hot tar and fine sand into joint

Clean badly cracked floors thoroughly for new concrete topping. Muriatic acid helps remove stubborn spots. Detergent provides good bond between old and new

Finishing the surfaces

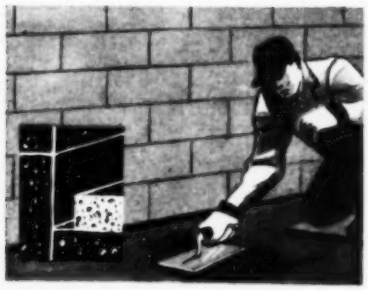
Scrub the wall with water-cement paint having at least 65 percent cement. You'll get some waterproofing action. Paint or plaster will not control wall condensation

Use special adhesive to hold special anchor nails for furring strips. Strips are hammered onto nails. Expansive anchors in star-drilled holes work also for this job

walls

Here are a few ideas you can use to add usable space to your house. For the rest of the story on how to make your basement livable, turn to page 48

Wash out cracks, thoroughly wet them with water. Press cement-sand mixture (1 cement to 1½ sand) into crack with a calking tool. Finish smooth for painting



Pour new concrete topping over old floor. Make it at least 2" thick and leave an open joint around the edges for an expansion joint. Fill this with heated tar

Drawings: Hiser

Lay asphalt tile right on concrete floor. If wood floors are used, fasten flooring to pressure-treated sleepers. Provide a vapor barrier to keep water from flooring. **END**

***Blenn*, Brimm & Pasturgro help you make...**

MORE

PER ACRE - PER HOUR PER ANIMAL

Specially fortified growth elements in BLENN, BRIMM and PASTURGRO give your crop an extra boost . . . that brings back their cost, and more besides, in higher yields and better quality.

IT'S GOOD BUSINESS to feed your main crops BLENN and BRIMM, and your grass and legumes with PASTURGRO. Higher yields of grain and abundant forage assure you of top returns for each plant food dollar you invest. You can earn more per acre planted, more per hour worked, and more per animal fed, when you feed your main crops and pastures with Swift's specialized crop makers.

Chemically hitched growth elements

The chemically hitched growth elements in BLENN, BRIMM and PASTURGRO are exceptionally uniform because of an exclusive Swift method of making them. All ingredients are completely mixed mechanically and then completely processed chemically.

With manufacturing plants in major crop-growing sections, Swift formulates and fortifies BLENN, BRIMM and PASTURGRO to meet the exact needs of crops grown in your area. For certain crops and soils, BLENN, in the red plaid bag, is the ideal plant food. For other crops, and different soils, BRIMM, in the yellow plaid bag, does the top job. PASTURGRO, in the green plaid bag, is made especially for pastures.

Consult your Authorized Swift Agent or dealer. You can rely on his advice and . . . FOR THIS SPRING'S USE, BE SURE TO PLACE YOUR ORDER FOR BLENN, BRIMM AND PASTURGRO NOW.

Buy at the sign of the Red Steer

RED STEER *comes in many analyses to meet the needs of your crops and soil. It is Swift's reliable plant food for general crops.*

Swift's PLANT FOOD SERVICE RED STEER

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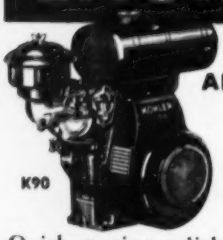

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K160	6.6 H.P.
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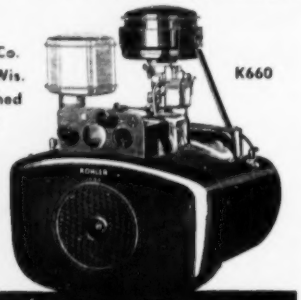

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AT YOUR DEALER'S
DAIRY ASSOCIATION CO., INC.
Lyndonville 28, Vermont

Heat your milkhouse with a... Water heater

By Kenneth L. McFate

If you're looking for a clean, automatic source of heat for your milkhouse, a combination water and space heater may be just the ticket.

The heaters work by storing heat in a larger supply of water than will ordinarily be needed in the milkhouse. A thermostatically controlled blower takes heat from the water as needed.

Combination water and space heaters are on the market now, and engineers at Iowa State College tested 3 different makes during a 20-week period last winter. The tests were run in milkhouses on 6 Iowa farms.

The Iowa State tests included only electrically operated heaters, but gas heaters employing the same principle are available. The price of the electric units ranges from $240 to $280, with the 93-gallon unit shown below costing most.

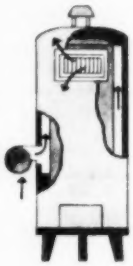
Electric heaters offer the greatest advantage when an off-peak water-heating period (with a special electric rate) is available. Controls can be set so water is heated only during off-peak periods.

On one farm using the 93-gallon unit, the cost of both water and space heating averaged 85 cents per week.

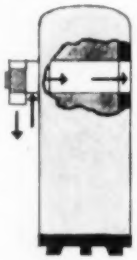
The tank must be big enough to store enough heat in the water so it will last through the day when heating elements are not working. On the basis of these tests, a 50-gallon tank is considered the minimum size for satisfactory operation when using electricity to heat water.

Double-duty heaters give you lots of hot water, also keep your milkhouse warm

Inverted U-tube is 2" in diameter, runs through a 52-gallon tank. Water is heated with a 1000- and a 1500-watt heating unit. Air is blown through tube



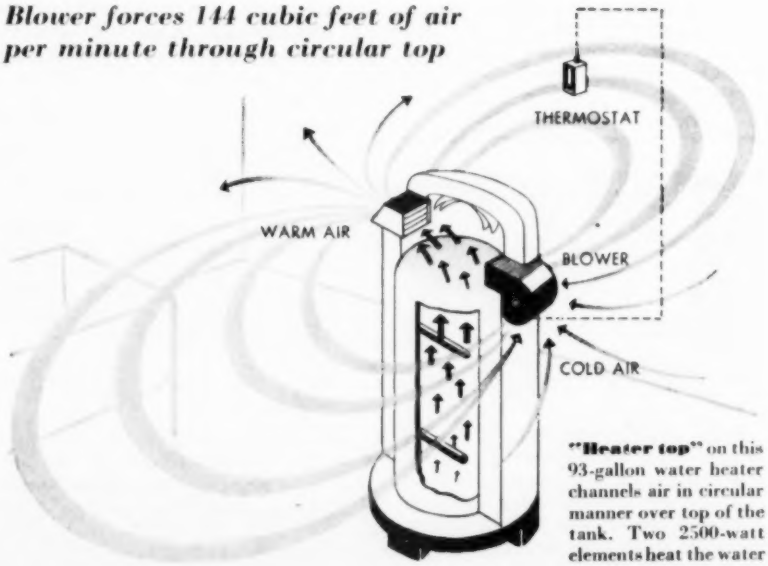
Gas-operated heater is built with space between 30-gallon water tank and insulated shell. Best for small houses



Air channel circling upper part of 50-gallon tank can heat 105 cubic feet of air per minute. Uses 2500-watt element

Drawings: Bade

Blower forces 144 cubic feet of air per minute through circular top



"Heater top" on this 93-gallon water heater channels air in circular manner over top of the tank. Two 2500-watt elements heat the water

Help increase yields from limited acreage—Improve stands, regardless of seed quality

1. This year's profits may depend on the yields per acre you get from limited acreages. Effective seed treatment is one low-cost step you'll want to take to get those *extra* bushels per acre.

2. Get the best seed you can but—regardless of quality—treatment will help it grow better. Treatment increases stands and yields yet costs only a few cents an acre. Under unfavorable growing conditions it may save reseeding an entire crop!

All Seed Grains Need "Ceresan" Protection

For more than 20 years farmers have increased yields with "Ceresan." It's the superior product, known and recognized as the standard for seed disinfectants. "Ceresan" gives each seed a protective coat and also releases a disease-killing vapor that penetrates every part of the bag or bin. Use it on wheat, oats, barley, flax and rye to get more clean grain per acre.

Grass & Legumes Catch Better with "Arasan"

You can get far more pasture and hay from the *same* amount of seed by treating it with "Arasan." Alfalfa yields increase as much as a ton per acre. Soybeans, too, need "Arasan" treatment, because dry, fall weather cracked the seed coats, making it easy for seed to rot in the soil. "Arasan" seals these cracks.

Corn, Beans and Peas Need I & D (Insect and Disease) Protection

If you suspect wireworm or maggot damage, seed may need protection against insects *and* disease. Du Pont I & D Seed Protectant does both jobs well. Contains lindane to kill soil insects, plus "Arasan" to prevent seed rot and seedling blight. It's proven for field corn, sweet corn, beans, peas, vegetables.

See your seed treater or dealer now

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BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

Seed Disinfectants

Quickie meals

from your home freezer

For meal at right: Cool foods. Wrap loaves in plastic sheets or moisture-proof cellophane, then in stockinet. Onion rings go in waxed freezer tubs

Next, wrap Stuffed-Baked Potatoes in aluminum foil; baked apples go in waxed freezer cartons lined with plastic or cellophane bags. Freeze at once

The rest is easy. Everything is reheated together. There is no juggling with different oven temperatures. Reheat potatoes in foil they were wrapped in

By Jo Nelson and Lillian Anderson

When you get home at the last minute, whether from a shopping tour or an extension meeting, your freezer can give you a dinner in a hurry.

But you can't take dinner *out* of the freezer unless you've first put dinner *into* the freezer. Here's where wise planning pays off.

Why not make up your mind to get at least one dinner into the freezer today? Then build up your supply of freezer meals until you have both of the ones we've planned for you here.

Good packaging is important

The new aluminum tray-type packages with covers are fine for many cooked foods. They can be put directly into the oven for reheating the food when you're ready to eat it. Freezer jars are satisfactory, also, as are the frozen-food cartons that are now on the market.

Pies and cakes can be slipped into polyethylene bags and tied with soft twine. Take care to see that all the air is out of the bag before tying it.

Waxed locker paper is satisfactory only for short-time storage.

Be sure to package all the food as solidly as possible to avoid air spaces which will cause food to change flavor and dry out. Package your cooked meats with gravies and sauces to fill all these air spaces.

Do's and don'ts in freezing cooked foods

Preparing any of these main dishes for freezing can be simplified by making a double batch, serving one and freezing the other. But keep these tips in mind.

Do select top-quality ingredients. Frozen foods will be no better than the foods you begin with. [*Turn to page 154*

This frozen meal tastes and looks good enough for the heartiest eater in the family. Such meals are good insurance when mealtime draws near and you're unprepared

Photographs: Photography, Inc.

Turn to page 154 for two meals that freeze easily

"My children like Quaker Oats best and I think it's best for them,"

says Mrs. Creola Wieland
Mother of Kenneth 13, Bruce 1, Terrel 10, Douglas 8, Rodney 6, and Beverly 14
Route #1, Kawkawlin, Mich.

3 reasons why farm families eat more Quaker Oats than any other cereal

1. BEST FOR GROWING CHILDREN. Mrs. Wieland, like so many other farm mothers, knows that Quaker Oats helps her children grow strong, healthy bodies. In fact, oatmeal provides far more body-building protein than any other leading cereal!

2. BEST FOR FLAVOR. The creamy smoothness and rich, delicious flavor of Quaker Oats make it the favorite cereal of farm families all across the land. And that famous Quaker flavor is the result of Quaker's years of know-how in selecting the choicest, largest oats—in steaming and toasting them with expert care.

3. BEST FOR ECONOMY. What other breakfast dish gives you the all-morning energy and high-protein nourishment of delicious Quaker Oats—at less than a penny a serving?

So take a tip from strong, healthy farm families like the Wielands. Give your family delicious, high-protein Quaker Oats every morning. Remember—oatmeal is as quick to make as coffee when you use Quick Quaker or Mother's Oats. Simply pour it in boiling water. In only 2½ minutes it's cooked completely—creamy-smooth, delicious, and ready to serve. Get a package today!

Quaker and Mother's Oats are the same fine oatmeal

QUAKER OATS

STILL LESS THAN 1¢ A SERVING!

Former Indianapolis career woman is prize-winning cook

Lt. Governor Congratulates Prize-Winning Cook

Indiana's Lt. Governor Handley congratulates Mrs. John Kleinhenz on her prize ribbons. Mrs. Kleinhenz entered cooking competition for the first time this year and took 3 awards at the Indiana State Fair.

Mrs. Kleinhenz is another top cook who uses Fleischmann's Active Dry Yeast. "It's so fast-rising," she says. "And really easy to use."

So many top cooks prefer it! Out of 9,449 prize-winning cooks surveyed, over 90% use Fleischmann's Active Dry Yeast. This dry yeast is so handy . . . keeps for months on your pantry shelf. Always rises fast. Now when you bake at home it's convenient to use yeast. But use the best—look for the label that says Fleischmann's Active Dry Yeast.

Believe what you See about Hand Lotions

It's one thing to make a claim, but quite another to prove it. Famous CHAMBERLAIN'S LOTION *gives you visible* PROOF *of how rapidly it penetrates your skin, soothing delicate tissues.*

MAKE THE PENETRATION TEST AND PROVE IT TO YOURSELF!

Place a cleansing tissue over each of two glasses. Pour a small amount of the lotion you now use on the tissue covering one glass. Pour the same amount of CHAMBERLAIN'S LOTION on the other tissue. See how Chamberlain's soaks completely through the tissue — just as it does into your skin.

Chamberlain's LOTION

. . . Makes your hands feel good — look good, too, even after using harsh, irritating detergents.

Here's why CHAMBERLAIN'S LOTION *penetrates and soothes chapped, rough skin faster, more effectively.* CHAMBERLAIN'S LOTION *is enlavished with a superabundance of Glycerine, the costly ingredient that soothes and softens. It contains 2 to 4 times more Glycerine than other leading hand lotions.* CHAMBERLAIN'S *is never sticky. It dries almost instantly. Start using* CHAMBERLAIN'S LOTION *today. Buy it at your nearby drug store or cosmetic counter.*

CHAMBERLAIN SALES CORP. DES MOINES, IOWA

Quickie meals

From page 152

Don't cook foods completely before freezing, or they will become mushy on reheating. Meat and vegetables should be tender, but still firm.

Do cool the cooked foods fast, to prevent continued cooking. Warm foods encourage bacterial growth, and this means spoilage. You can cool food quickly by placing a saucepan of cooked food in a large pan of ice water and stirring it occasionally as it cools.

Be sure to keep the saucepan covered, to reduce loss of good home-cooking smells, and to prevent those spoilage bacteria from getting in. Package immediately.

Do label the package and date it, so you won't keep the food too long.

Don't keep cooked foods in the freezer so long that they lose their distinctive flavors. A rapid turnover in the freezer is the key to success.

Don't store cooked foods, ice cream, unbaked rolls and yeast dough, unbaked quick breads, cake batter, and chiffon pies for more than a month or they begin to lose flavor.

Three months is the limit for baked yeast breads, baked quick breads, baked and unbaked pies, and baked cakes.

Do store at zero degrees in the lower third of the box along the side walls so foods will freeze rapidly. Leave air space between containers for good circulation.

Menu I

Individual Meat Loaves
Stuffed Baked Potatoes
French-fried Onions
Frozen Broccoli
Baked Apples Supreme

Individual Meat Loaves
(Makes 4 individual loaves)

- ½ cup dry bread crumbs
- ½ cup milk
- ¾ pound ground beef
- 1 egg, beaten
- 2 tablespoons grated onion
- ½ teaspoon salt
- Few grains pepper
- ¼ teaspoon sage

Soak bread crumbs in milk. Add remaining ingredients; mix well. Form into 4 individual loaves. Bake in shallow baking pan at 350° (moderate) for 45 minutes. Cool; wrap in moistureproof material. Freeze immediately. Reheat at 350° (moderate) for 40 minutes or thaw loaves and heat for 20 minutes.

Stuffed Baked Potatoes
(Makes 4 servings)

- 4 large baking potatoes
- ½ teaspoon salt
- Dash of pepper
- ¼ cup warm milk
- 1 tablespoon butter or margarine
- ½ 3-ounce package cream cheese

Bake potatoes at 375° (moderate) for about 1 hour. Cut potatoes in half lengthwise. Scoop out potato; mash. Season with salt and pepper. Add milk, butter, and cream cheese. Whip until fluffy. Pile lightly into potato shells. Brown at 450° (hot). Cool, package, and freeze. Reheat at 350° (moderate) for 20 to 30 minutes.

French-fried Onions (Makes 4 servings)

3 medium onions	2 tablespoons water
1 egg, well beaten	Flour
	Salt and pepper

Slice onions ¼ inch thick. Separate into rings. Combine egg and water. Dip onions in beaten egg, then in mixture of flour, salt, and pepper. Fry in deep hot fat (375°) until light brown. Cool, package, and freeze. To reheat, place frozen onions in shallow pan; heat at 350° (moderate) for 15 minutes.

Baked Apples Supreme (Serves 4)

1 cup brown sugar	⅛ teaspoon cinnamon
1 cup water	4 cored apples

Combine brown sugar, water, and cinnamon. Heat to boiling; add apples. Cook 3 to 4 minutes. Place apples in 8x8x2-inch baking dish. Pour syrup over apples. Bake at 375° (moderate) for 20 minutes. Cool, package. Cover well with cooking syrup. Reheat at 350° (moderate) for 30 minutes or thaw at room temperature.

Menu II

Swiss Steak
Sweet-potato Balls on Pineapple Rings
Frozen Green Beans
Dinner Rolls
Ice Cream

Swiss Steak (Makes 6 servings)

½ cup flour	2 to 3 tablespoons hot fat
1½ teaspoons salt	1½ cups sliced onion
½ teaspoon pepper	1 No. 2½ can (3½ cups) tomatoes
3 pounds round steak, 1½ inches thick	

Mix together flour, salt, and pepper. Pound seasoned flour into round steak. Brown in hot fat. Add onion and tomatoes. Cover and cook at 300° (slow) for 1½ to 2 hours. Remove cover the last half hour of cooking. Cool, package, and freeze immediately. Reheat in a covered casserole or skillet at 350° (moderate) for 1½ to 2 hours, or thaw and heat for 20 to 30 minutes.

Sweet-potato Balls on Pineapple Rings (Makes 12 balls)

2 or 3 large sweet potatoes or	½ cup corn flakes, crushed
1½ cups canned sweet potatoes	½ cup walnuts, chopped
1 tablespoon lemon juice	12 pineapple slices
6 marshmallows	

Cook sweet potatoes until tender; peel and mash. If you use canned sweet potatoes, heat and mash. Add lemon juice. Cut marshmallows in half; cover each marshmallow half with 2 tablespoons of mashed sweet potato. Roll 6 balls in corn flakes, 6 balls in chopped walnuts. Place a sweet-potato ball in the center of each pineapple slice. Freeze on cooky sheet. Package and return to freezer. The sweet-potato balls can be frozen without the pineapple slices, if desired. Reheat by placing in shallow pan and heating at 350° (moderate) about 30 minutes. **END**

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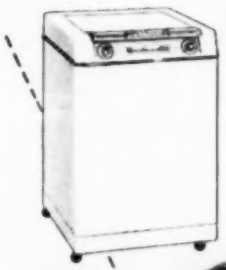
...and it only costs...

$169.95*



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Even with low water pressure . . . even without an automatic hot water heater—

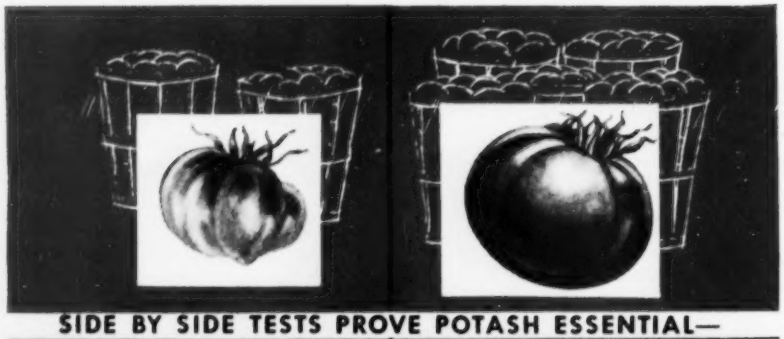
here's a WORK-FREE BENDIX WASHER that washes or rinses, drains, damp-dries, and shuts itself off *automatically!*

What a washer! Because you just fill it yourself, water pressure makes no difference . . . and no matter how you heat water in your house, this Bendix washer does a full-sized wash with new Super-Agitator cleansing action—work clothes wash *clean!* Floataway-Flushaway draining keeps dirty washwater from re-soiling clothes. No wringer—no lifting of heavy, wet clothes. Completely portable—rolls anywhere, stores anywhere! New flexible Metexaloy Wondertub is so durable it's *guaranteed in writing for 5 years!* It's the BENDIX you've always wanted!

*Model WDN

BENDIX HOME APPLIANCES
PIONEER OF WORKLESS WASHDAY

BENDIX HOME APPLIANCES, AVCO Manufacturing Corp., Cincinnati 25, Ohio



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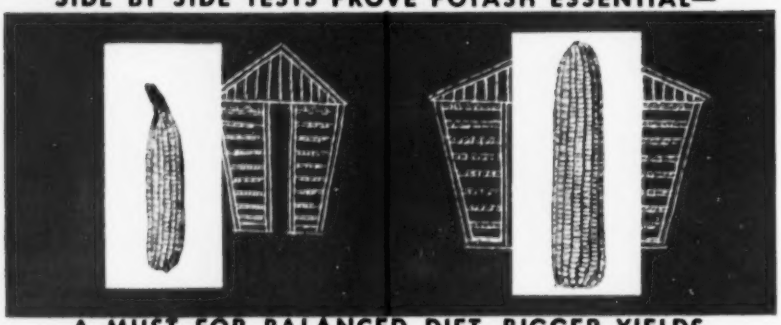
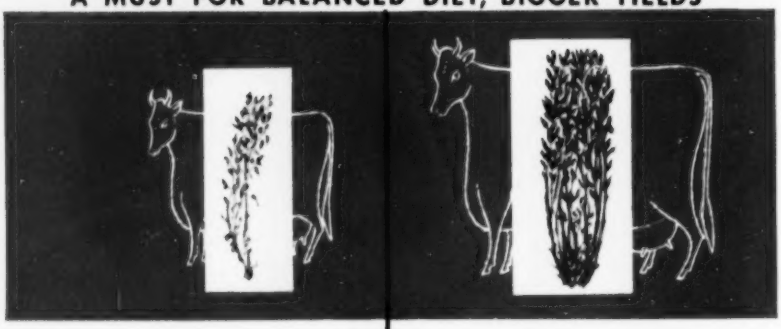


A MUST FOR BALANCED DIET, BIGGER YIELDS



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Your Yield Story. Even with Potash consumption tripling in the past ten years, farm experts still say *not enough* is being used. More Potash is needed if present yields are to be *increased* or even *maintained*. Be sure you consult your agricultural adviser for correct amounts for your land. But remember, *more Potash means more profits.*

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Agricultural policy: Farmers Union

From page 58

Promise" of 100 percent of parity was taken at face value. His support for the Young-Russell-Cooley law reassured the farmers.

As 1953 opened, the administration "scared the socks off" farmers when Secretary of Agriculture Benson spoke of price supports as useful only to prevent "undue disaster" and of the Department of Agriculture and its program as a "swollen bureaucracy."

As the year moved on, the Congress seemed to us to understand better than the administration the underlying sentiments of farm people.

A majority of congressmen and senators, from both sides of the political aisle, supported measures favored by Farmers Union. That farmers approved this action was substantiated by the overwhelming vote on the adoption of wheat-marketing quotas last August.

We were gratified when farm-program cuts recommended by the administration were disapproved by Congress.

We were encouraged even more that congressional farm leaders from both parties in the House of Representatives and the Senate—through statesmanship and hard work—preserved the farm programs that had been developed over the past 30 years.

What's at stake in 1954? In my opinion, 1954 will be the year of decision. In 1954, the American people, acting through the Congress of the United States, will decide whether or not public policies and implementing legislation will be adopted which can save the American farmer and the entire nation from economic recession, and possibly from economic ruin.

Where we stand on farm programs. The No. 1 policy which must be implemented is to *secure the renewal and improvement* of present price-support laws.

It is my view that we must do everything we possibly can to *get 100 percent of parity price supports on those commodities now being supported. And we must add,* as a minimum, *livestock and poultry to the list of supported commodities.*

If Farmers Union state presidents, Farmers Union members, and Washington Campaigners work as hard as they have in the past—in cooperation with working farm people everywhere, whether or not they are Farmers Union members—I believe we will be able to get at least a renewal of 90-percent price supports for the commodities presently supported, and to add livestock.

It is of vital importance that farmers marshal *all* of their forces from now on to leave nothing undone in order to save the American farmer from economic disaster.

There is a babble of voices in agriculture today. There are some leaders and officials who don't want any price-support programs. There are those who want to impose the *sliding scale* by the use of a two-

price system. Others want to go back to the 1948 or to the 1949 "*sliding scale*" *Agricultural Act*. Arrayed against these people is Farmers Union, a majority of the working farm people of the nation, and an apparent majority of congressmen and senators—both Republicans and Democrats—who stand for definite, legally assured price-support floors. If we can weld these forces, we can win our fight.

We have opposed the proposed two-price system: First, because it would impose a disguised and accelerated *sliding scale*, giving the wheat producer a blended average support price somewhere near 68 percent of parity. Then it would, when in full operation, engulf corn and feed-grain producers along with wheat farmers in a downward spiral of prices. Also, its adoption would imperil the continuation of the successful programs now in effect for cotton, rice, peanuts, and fluid milk.

Farmers have the opportunity—if they can develop it—to secure the adoption of an International Commodity Trading Post under the Foreign Operations Administration. Such an agency could deal more adequately with the problem of export crops and help establish permanent United Nations institutions to combat hunger and nakedness—as essentials in rolling back Communist aggression and winning a permanent peace.

As the cost-price squeeze becomes more severe, and as higher interest rates are felt more fully in terms of tightened credit and higher costs, farmers will feel increasing economic distress. National Farmers Union intends to meet the challenge of providing the legislative, cooperative, and educational solutions to the developing credit needs of farmers.

General situation. If we are to adequately serve farmers and consumers, we must find ways of reducing distribution costs. While our cooperatives have greatly narrowed these costs, we need to think and plan for an adequate distributive system. Farmers Union is studying this matter and hopes to develop some specific proposals.

Although the shore of agricultural prosperity and stability is now dimly seen, I have faith that we in America will finally adopt policies which will *accept abundance as a national policy*—where we will use our food and fiber to feed and clothe all peoples. I feel, also, that we will develop programs which will give American farm families *security on their land* and *real parity of living*. **END**

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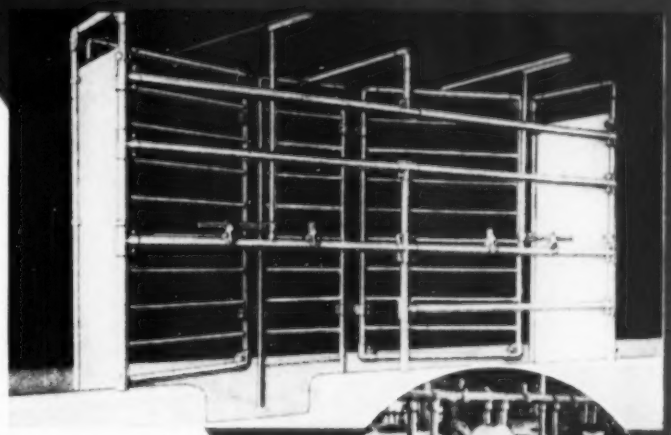

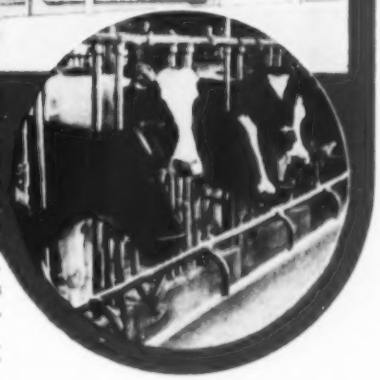

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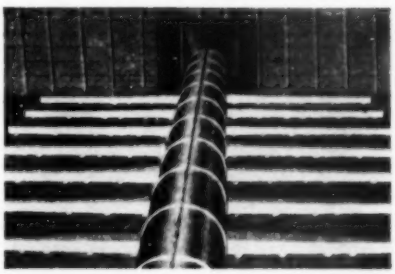

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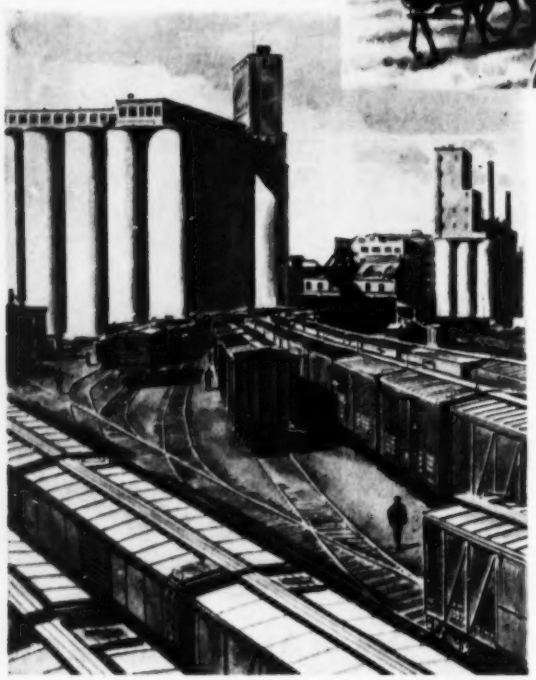
America and its railroads grew big and strong together

COVERED WAGONS carried the early American settlers in search of new homesteads. Land was cheap, but markets were few and far. The cost of moving a ton of freight averaged about 20¢ a mile.



HARD ON THE HEELS of the covered wagon came the railroads . . . grangers all. They were the touchstone that changed prairie trading posts into thriving market places, and frontier settlements into prosperous agricultural communities. Shipping charges were cut in half, later to be halved again and again. Today the railroads' average revenue per ton-mile is less than 1½¢.

...AND THEY'RE BOTH STILL GROWING!

During the last century America grew fast—and so did its railroads!

Agriculture flourished in vast new territory as railroads provided the means of moving the harvest to distant markets. New sources of raw materials were discovered—it took the railroads to get them where they were needed. New and better ways of making goods were developed—the railroads carried the products of growing industries to the eager consumers.

In 1954 America's railroads are still growing in strength—still setting new records of efficiency in their service. Today railroads haul more goods, more miles than all other forms of transportation combined. And their average charge is lower than that of any other form of general transportation. Yes, this railroad record is one big assurance that, in the future, America will be stronger, more productive and more prosperous than ever!

ASSOCIATION OF AMERICAN RAILROADS

WASHINGTON 6, D. C.

You'll enjoy THE RAILROAD HOUR every Monday evening on NBC.

Agricultural policy: National Grange

From page 59

cut back production are invoked. *It is here that Congress must point a new direction in 1954.* This new direction must be in the form of added markets.

As it is, Commodity Credit Corporation non-recourse loans and purchases by March, 1954, may well total $6½ billion. This is equivalent to one-half of our 1953 net farm income. Storage charges for these C.C.C. holdings today amount to over $400,000 per day. Normal storage losses from deterioration are bound to be huge.

Barring another hot war or a crop failure, this whole program stands at the precipice of disaster. Actually, the taxpayer, Congress, and the farmer are sitting on a powder keg of necessity.

Where we stand on farm programs. Therefore, it is my hope that in 1954—for the long-time pull—farmers and their Congress will choose the *sound, even though difficult, road of added markets* rather than to pursue the short-sighted and basically *unsound route of trying to cut back production.* American agriculture must sell its production and must increase the dollar return from total marketings if we are to remain free.

Until these markets can be tapped, however, we will be forced to accept some control and will have to rely on high price supports.

But, over the long pull, the Grange has little patience with those who say we cannot sell at a profitable level the output of the most efficient agricultural producers in the world.

The markets are there: 80 percent of our global citizens are underfed. It doesn't make sense to say they do not want to buy our food and fiber. We have unwittingly priced ourselves out of the world market. The trend in agricultural exports in this country—except for relief and war exports—has been steadily downward since 1920.

We haven't tried to solve the problem by making it possible for the farmer to enjoy an American price for that portion of his produce that is consumed domestically—and providing a second price which would enable him to tap world markets. Instead, we store up surplus production—which could be exported—in huge government holdings, and let other exporters grab the world market.

To assume that we cannot profitably tap the hungry stomachs and fiber needs of millions of people as markets for agriculture is to sell ourselves down the river of mental sterility. *Sound global trading policies must be substituted for our past giveaway and control programs.*

Just because the American farmer can produce more than our present United States population can consume at fair prices is no reason that he must accept production and economic slavery via the control route as anything but a *temporary* stopgap. The same brains and ingenuity that have created a production revolution

in the barnyards and fields across the land can be pooled to sell the market the goods that are the necessities of life of all people.

And greater emphasis must be placed on upgrading the diet of our American people—through advertising food for what it means in terms of health, happiness, and productivity. And the industrial use of farm commodities holds vast long-range possibilities.

Switching from the philosophy of production cutbacks to the full route of selling our wares won't happen all at once. *It is in the interim that controls and high price supports should be kept.* It is my feeling that if we really work at removing the obstacles to world trade on the other hand, it won't be too long before we can increase demand to the place where it will make *little difference whether we have price supports or not.*

The farm problem is, of course, only a part of a complex national problem. Its solution will require the best in all of us. Sound money policies, full employment at fair wages, and sound taxing policies are basic ingredients. It is a policy for all of us to solve jointly.

How we view Congress and the administration. Looking back over the past year, farmers fared "tolerably" well at the hands of Congress and the administration. It was not a spectacular year, but the way has been paved for material added progress. A stable dollar has been achieved . . . inflation control got underway 18 months ago . . . a balance of power has been achieved between our major economic groups . . . tax reforms are on the way . . . control of the Farm Credit Administration was turned over to its farmer owners . . . adequate appropriations were allowed by the Department of Agriculture. The department itself was reorganized and streamlined for efficiency.

The Grange was successful in having established a National Agricultural Advisory Commission. And top-level priority is being given to studies which are designed to find ways and means of increasing world trade and global markets for farm commodities. **END**

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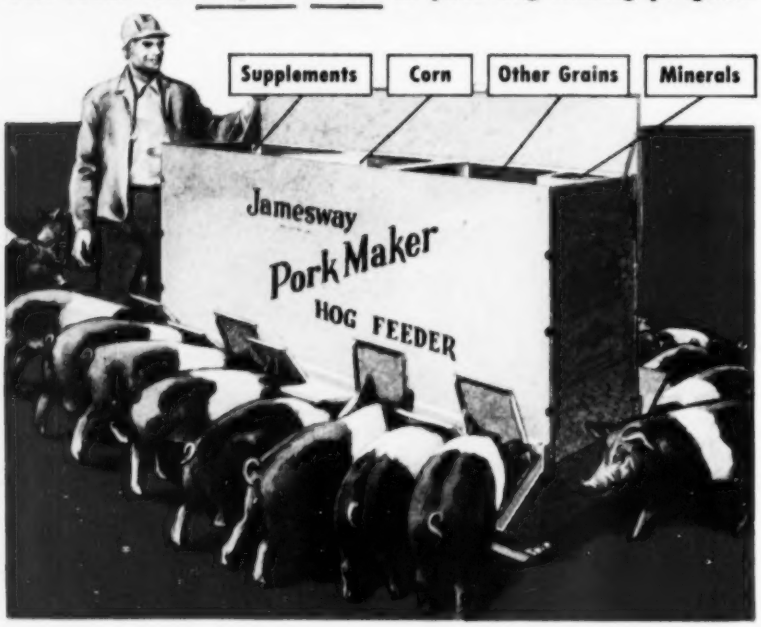

This versatile Pork Maker does *all* your feeding jobs at single feeder cost and convenience. Self-feeds four different grains and supplements separately, when desired. Saves the cost of extra feeders . . . and makes your feeding chores easier, whatever your hog raising program. You get longer feeder life, greater capacity. Every metal unit is hot dip galvanized, completely water tight and ruggedly built. Every unit gives you extra space at every feeder door so that more hogs eat without crowding. Sturdy dividers prevent fighting and wasting feed. Agitators adjust to any ration . . . keep fresh feed before your hogs 24 hours a day for faster, more economical gains. See these new Pork Makers in 6-, 10- and 16-hole sizes at your Jamesway dealer's now. Choose from the world's most complete line of high quality hog equipment.

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Feeds milk replacements to baby pigs. Holds 5 gal. Spacers prevent crowding. Is easy to clean and fill.

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Ideal for smaller operations, auxiliary feeding. All-metal, galvanized construction. Is water tight.

PRESSURE WATERER

Rugged. Compact. Fits any pressure system. Hinged mud guard, heavy cover. Electric heat for winter use.

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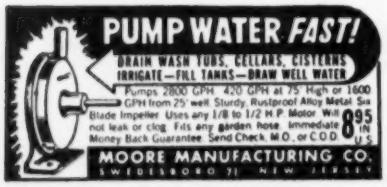

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Agricultural policy: Farm Bureau

From page 59

what we ought to seek was high employment, rising productivity, and a reasonably stable price level.

Our 1953 accomplishments. During the year, we have helped develop a better understanding of our stake in international trade—and have made many proposals for expansion of mutually beneficial trade. We supported the one-year extension of the Reciprocal Trade Agreements Act and the establishment of a foreign economic commission. Our policies in this regard were enacted into law almost without change.

We opposed the import embargo provisions of the Defense Production Act, and they were allowed to expire. We supported legislation for customs simplification for the purpose of facilitating trade. Progress was made on this front.

More and more farmers have realized that the fall in farm prices in the past two years has resulted primarily from a decline in demand. Domestic demand has been everything that could be asked. *The decline has been in exports.*

The Farm Bureau supported farm-credit legislation which was enacted, and which assures increased control by farmers. We made recommendations and secured action on such diverse matters as appropriations, wheat allotments, Mexican farm-labor program, insurance for commodities stored abroad, extension service, reorganization of the Department of Agriculture, drouth relief, and many others.

One of our major functions is to oppose passage of legislation that is contrary to our resolutions. Negative accomplishments are often important, too.

There is a growing knowledge on the part of farmers that farm prices since the war have not been a result of legislation but have been war prices.

We have shown a considerable reluctance to face up to implications of some provisions of present legislation. The supply and demand situation might well have called for quotas on cotton and wheat in the fall of 1952. However, we put it off until the fall of 1953, and as a result, have added greatly to the so-called surplus problem.

This *seems* good, as long as the wheat goes into storage at a satisfactory price. But, it is well to remember the simple fact that when it goes into storage, it seems to *add* to demand—and when it comes out, it *subtracts* from demand.

What's at stake in 1954. In 1954 for the first time in many years, we have the problem of diverted acres. It is one thing to take a few thousand acres out of tobacco to maintain a tobacco program; it is quite another to take 30 odd million acres out of major crops and put them into competition with other farmers when demand is slack compared with production.

We need to solve this domestic situa-

tion. We have a dramatically potent American demand. We need to do everything possible to develop foreign markets. We need to maintain a system with real opportunity for farmers to earn high *net* income.

How we view Congress and the administration. It is a favorite pastime now to appraise the administration. One thing is clear. A year ago last fall, the people voted for a change. The job of making a change was far greater than most people realized. No such task was ever undertaken by a new administration before. There never was a government the size of ours before.

Many months were consumed in developing plans for a new administration and in trying to overcome some of the road blocks.

In the Department of Agriculture, progress was made in reorganization. The department seemed to have two major purposes in mind. The first was to get efficient administration and to streamline that administration. The second major purpose was to be sure to carry out the will of Congress.

An honest attempt has been made to prevent partisan politics in the administration of farm programs and to emphasize local responsibility and local participation in them.

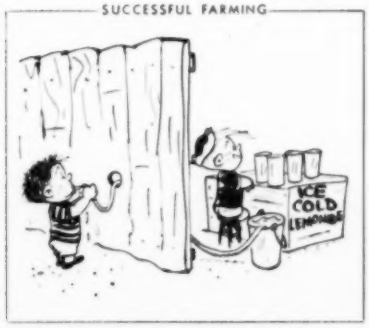
As related to the long-standing policies of Farm Bureau, these are all good reorganization objectives.

The administration faces the stupendous job of postwar adjustment. Historically, some countries have made this adjustment by continued inflation and extraordinary expansion of nationalization as the value of their money broke down. We are dedicated to maintain a sound government and a sound currency, and at the same time avoid deflation.

Our aim. Again, so far as farm prosperity is concerned, there is no substitute for markets. There is no substitute for efficiency of production. There is no substitute for research and education. The real aim is *high net income* and *better rural living*, and over and above that, the contribution by farm people to peace and prosperity round the world.

We confidently believe that through Farm Bureau we can make such a contribution, and an increase in membership of 100,000 farm families last year indicates the strength and courage with which farmers join in this conviction. **END**

SUCCESSFUL FARMING



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pelletized fertilizer

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Mathieson, a recognized leader in the agricultural chemical field, developed the new AMMO-PHOS . . . a mono-ammonium phosphate formulation . . . to help today's farmer produce bigger crops at lower cost. As the only fertilizer producer in the U.S.A. using this advanced chemical process, Mathieson provides . . . guaranteed plant nutrients that are completely water soluble . . . chemical balance and uniformity . . . quick-acting and non-leaching nitrogen combined with the most soluble phosphate—and potash to fit your soil requirements.

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Gifts *you'll welcome*

—to give—or get

By Pat McBrien

The joy of receiving a gift is unending. At Christmas, they are expected, but given at other times, they will be even more remembered and appreciated. So, for the anniversary, birthday, housewarming, or just to lift your own spirits, choose a gift like one of these—one to make a "just fair" room turn glamorous.

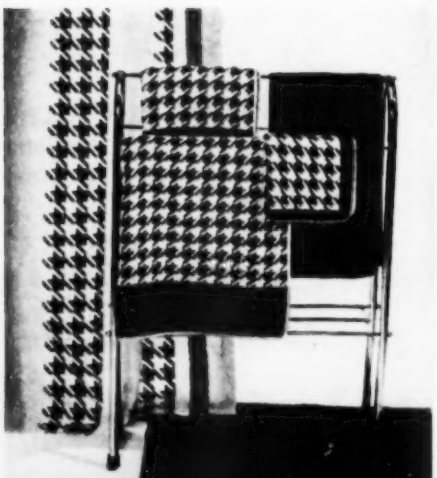
Before you buy anything, be sure to get a good look at the room where the gift will go to be sure its color and style will be complementary to the furnishings already there. And remember that function goes hand in hand with beauty, so keep your gift practical as well as pretty.

A welcome addition to any room, this lamp gives no hint of its dimestore background

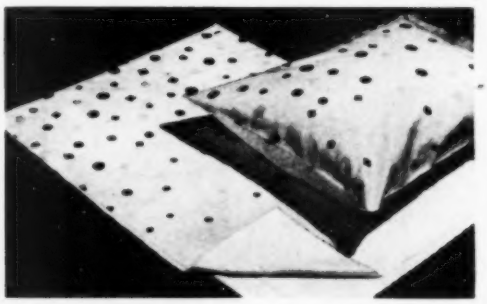
Sleek and handsome, a pen that is as usable and durable as it is good-looking would be the finishing touch for his desk

Brass and black wrought iron team up for smart appearance as a low-priced rack for current magazines. Include a subscription with it

Stack stools for handy extra seating when guests come to watch TV; snack tables, or what-have-you



Matched sets with shower ▶ curtain, towels, and bath mat make the job of decorating plain bathrooms much easier



Multicolored polka dots blend with blankets for a color-schemed bed with a different look. You could make a dust ruffle to match

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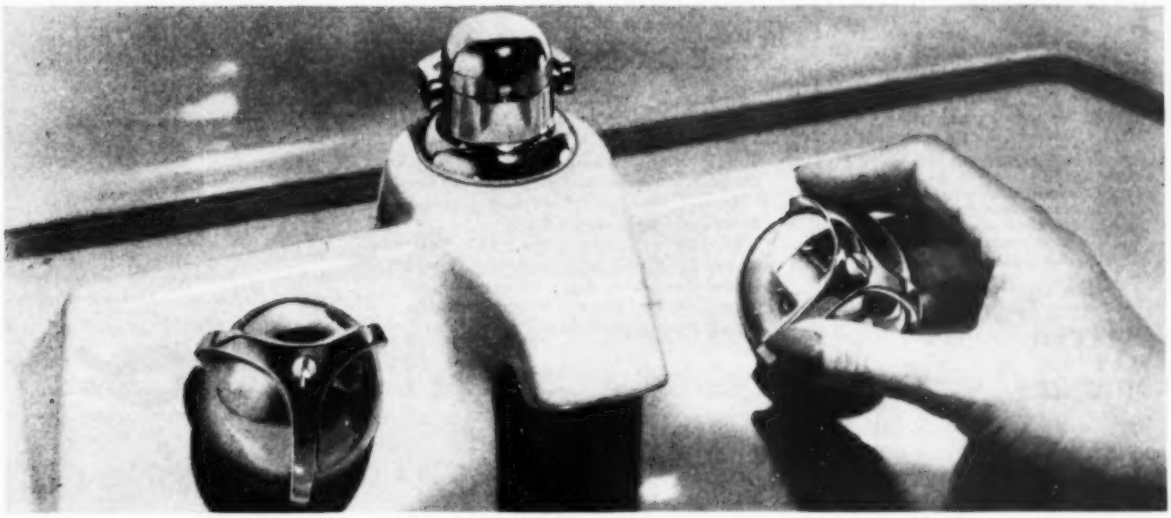
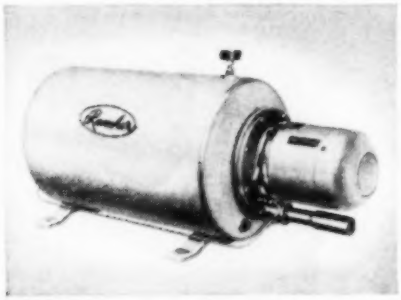
CRANE

More people prefer it
You can afford it



"Control panel" of a Crane Marcia lavatory gives a close-up of the beauty of Crane design

Everything for your water system but the water itself!



New Crane Rancher Pump is compact, quiet, completely automatic. Delivers ample water for all needs. Is the heart of the modern farm water system.

Few things are as important on a farm as running water and plenty of it! And Crane can furnish everything for your water system from pump to faucet.

Consider your bathroom, for example. Crane fixtures are the most admired any way you look at it—the most admired for styling, for quality, for serviceability. Most people want Crane in their homes. And Crane fixtures come in a wide range of prices to fit any budget.

Other Crane equipment is equally outstanding: deep and shallow well pumps to deliver hundreds of gallons of water under pressure for only pennies . . . pipe to carry the water . . . conditioners to soften and purify it . . . heaters to heat it . . . wonderful sinks and cabinets for your kitchen . . . gleaming Laundrette tubs for your basement or utility room.

Here from one source you can get them all . . . and get the best! See your Crane Dealer.

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It's wonderful the way Chewing-Gum Laxative

acts chiefly to REMOVE WASTE —NOT GOOD FOOD

Here's the secret millions of folks have discovered about FEEN-A-MINT, the modern chewing-gum laxative. Yes, here is why FEEN-A-MINT is so wonderfully different.

FEEN-A-MINT is different because you chew it. It's different, too, because it **removes mostly waste—not good food!**

You see, FEEN-A-MINT **does not work** in the stomach, where food is being digested. That's why it **does not** take away a lot of the good food you need for energy.

Doctors know that FEEN-A-MINT works chiefly in the **lower bowel . . . removes mostly waste, not good food!**

So to feel like a million, do as millions do. **Chew** delicious FEEN-A-MINT . . . and feel full of life and energy! **Get** FEEN-A-MINT! 25¢, 50¢ or only 10¢.

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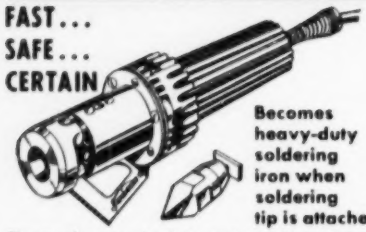
THE CHEWING-GUM LAXATIVE

DEHORN YOUR CALVES WITH Sunbeam STEWART Automatic Heat Control CALF DEHORNER

FAST . . . SAFE . . . CERTAIN



Becomes heavy-duty soldering iron when soldering tip is attached

Your calves can be dehorned any time of year with the Sunbeam Stewart calf dehorner. No loss of blood—no open flesh wound—no bad after effects. Automatic heat control provides correct, high heat. Complete with heavy duty soldering tip, $15.95 at your dealer's.

Write for more information on Sunbeam Stewart Dehorner

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Hay cured **MEYER WAY** is worth more to sell or feed. Stems dry fast as leaves . . . leaves stay on . . . hay retains color, protein and up to 300% more carotene (Vitamin A). Cuts and conditions hay at same time. Curing time cut in half—hay can be put up same day it's cut. Danger of sun burning, bleaching, rain spoilage is reduced. Features Exclusive Floating Rotary Pick-up that raises freely over rocks and terraces.

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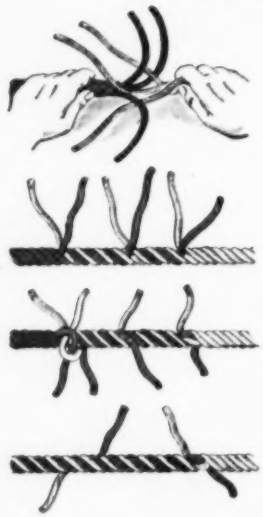
Easy ways to

Put rope to work

Chances are, you have some rope that isn't doing as much work as it could. Here are a few suggestions for getting better results

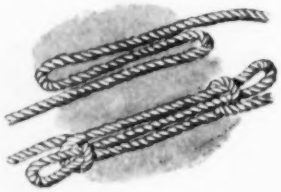


Long splice is used to join ropes used in pulley work, has about 85 percent of rope's strength. To splice, unlay end of each rope about 15 turns, and place ropes together, alternating the strands.

Starting with any opposite pair, unlay strand from one rope, replacing it with strand from other rope. Repeat with another pair. Tie opposing strands as shown, then roll and pound splice.

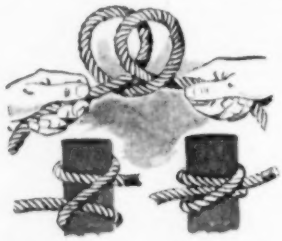
Sheet bend is used to join ropes temporarily, works best with two ropes of the same size. To tie, make an overhand loop with end of one rope. Pass end of other rope through the loop, then draw up tight

Basic half hitch. Used when fastening to posts or poles for right-angle pull. End of rope must be between hight and the object. Two half hitches (above, right) work best for dragging timber, or fastening guy ropes



Sheepshank shortens rope temporarily. Tie by forming S-loop, then make a half hitch and slip over one end of the loop. Repeat with other loop. Sheepshank can be used to shorten towropes or hay tackle

Fisherman's knot won't slip, is used to join small ropes, or twine. Begin knot by laying two ends together, then tie an overhand knot in each rope, *around* the other rope. Draw knots together and pull tight



Clove hitch can be tied in middle or end of rope. To tie, make first turn around object with underhand loop, next turn is overhand loop. Pull both ends to tighten

Drawings: Hiser

Bowline never fails. To tie, make overhand loop with end held toward you. Pass end up through loop, then around standing part, down through loop again. Draw tight

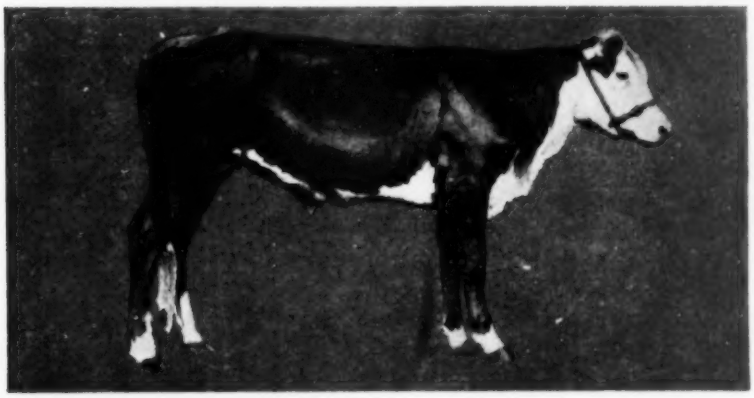
It's plain to see this steer needs a daily ration of

MORTON Trace Mineralized SALT

Salt-starved and minerals-hungry, this steer is miles from a profit. His whole system is out of tune . . . unable to make use of the body-building nutrients he gets in his feed. He's actually sick from salt and mineral deficiency . . . needs Morton Trace Mineralized Salt to get back on the road to profitable gains.

This steer looks normal, but he also needs

MORTON Trace Mineralized SALT



The invisible need for salt and trace minerals troubles this steer. He is actually starving on a full stomach . . . robbing his owner of profit. He isn't getting *enough* Morton Trace Mineralized Salt. Result: excessive feed consumption for every pound of gain. Free choice feeding of Morton T. M. Salt would get him back on the profit side in a hurry.

For maximum profits, even this steer needs

MORTON Trace Mineralized SALT

Yes, to *stay* in prime condition, this steer needs plenty of Morton Trace Mineralized Salt. You know he needs it—he knows how much! Feed it free choice for profit. In combination with your favorite calcium-phosphorus mineral, Morton Trace Mineralized Salt supplies all the minerals your livestock are known to need . . . supplies these minerals in their most palatable form—mixed with salt.

Trace minerals are thrift minerals

because they help make more meat, more milk, more wool per feed dollar

Iodine
Cobalt
Manganese
Iron
Copper
Zinc

GET MORTON T. M. SALT AT YOUR FEED DEALER . . . MADE BY THE MAKERS OF FAMOUS MORTON TABLE SALT

DOW

"KNOCK-OUT DROPS" for tough brush

ESTERON BRUSH KILLER and ESTERON 245 offer three proved ways to control trees and brush *any month in the year*

BASAL BARK SPRAYING requires all-around coverage of the basal area from the ground line upward 15 inches. Wet thoroughly until run-down or run-off is apparent.

FRESH-CUT STUMPS may be treated in any season. No troublesome sprouts and suckers will appear—provided the entire stump area, including bark, cut surface and all exposed roots, has been thoroughly drenched with the spray soon after cutting. Best results are obtained on stumps one inch in diameter or larger.

FRILLING is a successful control technique for large hardwoods 12 inches or over in diameter. Tree is encircled near the ground line with overlapping axe cuts deep enough to penetrate the sapwood. Cuts are then treated with the Esteron 245 or Esteron Brush Killer in oil.

Year-around control with Dow's hard-hitting brush killers lets you spray brush at your convenience, when nearby susceptible field crops are no problem or when it fits your work schedule. You can selectively weed unwanted scrub trees out of pine or other desirable stands by these methods also. Ask your authorized Dow dealer about Esteron® Brush Killer (containing low-volatility esters of 2,4-D and 2,4,5-T) and Esteron® 245 (a 2,4,5-T ester formulation). Also, both of these versatile products are ideal in water sprays for over-all foliage brush control during the summer. THE DOW CHEMICAL COMPANY, Agricultural Chemical Sales Department, Midland, Michigan.

you can depend on
DOW AGRICULTURAL CHEMICALS

DOW

Poor hay

From page 52

with poor roughages. This is the mixture worked out at Purdue:

	Pounds
Soybean oil meal	**650.5**
Molasses	**140**
Alfalfa meal (17% protein)	**140**
Bonemeal	**52**
Salt with cobalt	**17**
Vitamin A and D concentrate	**0.5**

The vitamin A and D concentrate used in this supplement contains 4,540,000 U.S.P. units of vitamin A and 567,000 units of vitamin D per pound.

This supplement-A mixture can be made up at a cost of about $85 per ton. Oil meal alone may be a few dollars less per ton but the mixture above contains protective nutrients that oil meal alone doesn't have.

The supplement-A mixture is recommended for feeding at the rate of 3½ pounds per steer per day. At 4¼ cents a pound, it will cost you about 15 cents a day for the supplement. *The amount you feed will depend upon the quality of your roughage.* You'll have to decide just how poor your roughage is, and then supplement accordingly.

If you think your roughage would rate a fairly high No. 3 grade, you may be able to use oil meal alone instead of the supplement-A mixture. If this is the case, then feed 1 or 2 pounds of oil meal daily per head. With oil meal at 4 cents a pound, you could supplement a high Grade 3 hay for 4 to 8 cents a day.

As we mentioned earlier, this supplement A has been used mostly for steer feeding, *but it also can be used for dairy cows.* If you use it for dairy cows, feed 3½ pounds daily per head in possibly a 10-pound ration—the other 6½ pounds being ground corn and oats. This ration, along with the hay, is enough to support a production of from 30 to 40 pounds of milk per day.

There are other supplement mixtures or premixes that you can use along with poor hay. Some mixtures contain urea, dicalcium phosphate, cobaltized salt, and vitamin A and D concentrate. These usually are added to a mixture of oil meal, molasses, alfalfa meal, and ground yellow corn, to yield a 32-percent protein feed mixture.

Here's a supplement that makes use of urea. It's called Iowa Cattle Supplement 1. This supplement should be fed at the rate of 1¼ pounds per head per day, along with some corn or molasses in the ration to provide a source of quick energy.

	Pounds
Linseed oil meal	**1,286**
Urea feed	**458**
Bonemeal	**240**
Iodized salt	**64**
Trace element premix	**16**
Vitamin A and D premix	**16**
Live yeast feed	**6**

Another good supplement—Iowa Cattle Supplement 2—can also be used to make up for deficiencies in poor-quality hay. Here's how to mix it:

	Pounds
Linseed oil meal	666
Distillers grains	666
Molasses	268
Urea feed	214
Bonemeal	134
Iodized salt	36
Trace element premix	8
Vitamin A and D premix	8

The above supplement should be fed at the rate of 2¼ pounds per head per day.

Many of you will be feeding grass silage this winter. If you have plenty of it—and it's good quality—you won't need any other roughage for your dairy cows. Grass silage has proved to be satisfactory as the only roughage in a good dairy-cow ration in tests at Iowa State College. Of course, the cows need a normal amount of grain along with the silage.

Grass silage can also be used as the *only feed* for beef cattle if properly supplemented. Purdue Supplement G, composed of alfalfa meal, molasses, dried brewer's grains, bonemeal, and salt with cobalt, has been used successfully along with grass silage for wintering steers.

If you are feeding corn silage, remember that it only supplies slightly more than ⅓ as much total digestible nutrients per 100 pounds as good-quality hay. If corn silage is used as the only roughage, add a calcium supplement such as ground limestone, because corn silage is low in this mineral.

Corn silage is also low in protein, usually containing no more than 2 to 3 percent. So, if corn silage is your only roughage, you'll have to feed larger amounts of protein supplement. It's best, when possible, to feed at least 6 or 7 pounds per head daily of good hay in addition to the corn silage.

Calves dropped from cows which have been fed large amounts of poor-quality roughage need attention. To be on the safe side, give calves 2 or 3 vitamin-A capsules shortly after birth. Each capsule contains about 25,000 units of vitamin A and will protect the calf against this nutritional deficiency. **END**

SUCCESSFUL FARMING

Only the Brillion Sure-Stand plants EVERY SEED within this ½-inch Life-Line

"Last spring I borrowed a Brillion and found the way to the best stand of grass I ever had. And I saved seed, work and time in the bargain.

"One reason is that a Brillion finishes its own seedbed. It crushes the lumps and clods, presses out air pockets—then meters the seed in uniformly . . . even chaffy seeds like brome grass. Rear rollers finish the job. They firm all the seed into the top ½-inch of soil where experience shows seed grows best. None is lost by covering too deeply.

"For me, it adds up to this: Brillion doubles your chances for a sure catch, cuts your seed bill in half and leaves a field looking like a million dollars. That's why a Brillion makes good sense to me—why I'm buying my Sure-Stand seeder now."

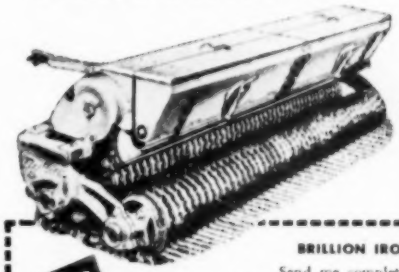
Users say BRILLION SAVES SEED AND LABOR

"We use ⅓ less seed. A Brillion puts it in just the right depth for a dandy stand."—*Leslie Frazier, Lynden, Wash.*

"I bought a Brillion for the labor it saves. It does in one operation what formerly took four in seeding alfalfa and brome grass."—*F. W. Schnake, Beardstown, Illinois.*

"We have had wonderful results in getting good stands with less seed than the old drill method. Also the land is left smooth for mowing." — *Virgil Estes, Fayetteville, Ark.*

"Especially like the brome attachment. I've had real success with it" — *Dr. M. S. Geiler, Piqua, Ohio.*



Brillion
SURE-STAND GRASS SEEDERS

BRILLION IRON WORKS, INC. Dept. BG-1-2, Brillion, Wisconsin

Send me complete information on the Brillion Sure-Stand Seeder. I seed about ..... acres for hay and pasture each year.

Name .....

Town ..... RFD .....

County ..... State .....

Free Grass Book!

How to INCREASE PROFITS

Continuous forcing for high milk yield can mean poor conversion, sluggish cows . . . waste of expensive feeds. Mix KOW-KARE year 'round, especially for freshening's extra strains. KOW-KARE's Vitamin D_2, Tonic Drugs, Iron, Iodine, Cobalt, Phosphorus and Calcium help promote bigger milk checks, vigorous calves. Get KOW-KARE! 3 thrifty sizes, at your dealer's.

FREE Cow Book

Send for helpful 24-page illustrated treatise on "Care and Feeding of Dairy Cattle." Filled with useful health hints.

Dairy Association Co., Inc. Lyndonville 44, Vermont

Save 1/3... Buy 50 lb. Drum

RANCHERS! CATTLEMEN! FARMERS!

CALL YOUR CATTLE WITH THE NEW Kattle Kaller AUTO HORN

GUARANTEED to Call Cattle for Feeding, Shipment, Dehorning

Bellows Like a Bull. Cattle Respond Quickly. Greatest time saver for livestock industry. Easily installed on car—truck. Deep penetrating tone carries for miles. Imitates any cattle sound. Great novelty horn, too. If your dealer can't supply you, order direct and send us his name. Send check, M. O. C. O. D. Money back if not satisfied. Dealer inquiries invited.

Complete with Steering Post Control Lever

SPECIAL INTRODUCTORY OFFER

$10.95 Post-paid. $2 below reg. list

KATTLE KALLER DIV. 1928 So. 20th St., Omaha, Nebr.

TRU-PERIMETER HEATING

The leading hot water baseboard heating. For new homes or old. Folder on request to Dept. SF-2, Warren Webster and Company, Camden 5, N. J.

Webster

TRU-PERIMETER FORCED HOT WATER BASEBOARD HEATING

Keep *Successful Farming* coming your way. Each month in *Successful Farming*, you will find the kind of information that will help you increase your profits, make your farm work more convenient, and your farm living more comfortable.

CRIB PLANS FREE!

Send for FREE crib blueprints with list materials. Also Elevator catalog—shows 8 styles.

MEYER FARM ELEVATORS CUP AND PORTABLE

Simplest, strongest — no short turns. Widest, sturdiest Portable—handles baled hay. Write us your crib problems today. State whether interested in Bucket or Portable. Postal brings FREE catalog.

THE MEYER MFG. CO. Box 1260, MORTON, ILL.

Another solid-nitrogen fertilizer—a powerful one with 45 pounds of actual nitrogen packed in every 100-pound bag—a versatile one that you can spread dry or spray on—a nitrogen easily dissolved, and a nitrogen that doesn't leach

Photograph: Edwards

No urea—19 bushels an acre | **444 pounds of urea** (200 #N)—71 bushels per acre

UREA...

a new nitrogen fertilizer

By Robert Q. Parks

This year, for the first time, urea as nitrogen fertilizer will run into the hundreds of thousands of tons.

To help you get acquainted with urea, eight questions are answered below. Answers were drawn from agricultural colleges and fertilizer manufacturers.

1. What is urea fertilizer? Urea is made of 2 parts ammonia and 1 part carbon dioxide. It is a solid material made from air and natural gas or coal.

Since a 100-pound bag of urea fertilizer contains 45 pounds of actual nitrogen, you can consider urea a high-analysis nitrogen. It contains a higher concentration of actual nitrogen than any other solid-nitrogen fertilizer. This means a saving in labor, since you need to handle fewer bags of urea in order to get any given amount of nitrogen spread.

2. What does urea look like? As you buy it, urea is in the form of round, white prills, or beads, about the size of number 7 shot. These small beads are dusted with a fine powder to prevent their caking in the bag or gumming up the fertilizer spreader.

3. Where can you use urea? Wherever a nitrogen fertilizer is called for, urea is as good as any other form. It is well suited for plowing down before corn, side-dressing corn, top-dressing small grains in the spring, and for top-dressing hay and pasture crops.

Urea has also been dissolved and used as a leaf spray. Some farmers have used it in their irrigation system, applying it with sprinklers.

4. Has urea been adequately tested? Yes. States in the Southeast have been experimenting with urea for many years.

Urea has shown up well at Missouri, Michigan, Indiana, Kansas, and Nebraska experiment stations. Workers from all these stations agree that urea is just as good as any other form of nitrogen for fertilizer.

5. How much does urea cost? Per pound of actual nitrogen, urea will probably compare favorably with prices of other forms of nitrogen.

6. How can you apply urea? Urea is free flowing, like sand, and spreads easily in fertilizer distributors, either at planting or cultivation. It's water soluble and can also be applied in irrigation water.

7. How does urea act in the soil? Urea acts like *both* the ammonia and nitrate forms of nitrogen, to some extent. When first dissolved, it moves down into the root zone, like nitrate forms. Then, instead of leaching, as nitrates do, urea is changed to ammonia form by soil bacteria, and is fixed to soil particles.

8. Can you get all the urea you need? By the fall of 1954, urea production for fertilizer will be a half-million tons. You should have no problem getting it then.

Now—*speed baling*

at a price more farmers can afford!

New Holland's engine-powered "66" Twine-Tie bales faster than many larger machines—and costs hundreds of dollars less!

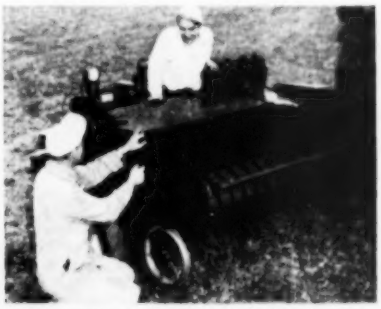
Up to 7 tons an hour . . . hour after hour! That's the kind of capacity you can get on your farm with a New Holland "66". Don't worry about field or crop conditions either. This baler takes all varieties of hay, coarse or light, green or cured.

Last season, thousands of farmers bought a "66" to put up their hay faster... get richer feed in the barn. It's likely a "66" could do the same job for you. See your New Holland dealer.

The New Holland Machine Co., New Holland, Pa. A subsidiary of The Sperry Corporation.

In the farmyard or on the windrow, few machines are easier to handle than the New Holland "66". You can hook up in seconds, store it in spaces that would never take an ordinary baler.

Quick-starting, 15-h.p. air-cooled engine lets you bale with a one-plow tractor . . . and get up to 7 tons an hour!



Pick-up "floats" to meet all field and crop conditions. Long spring fingers pick the last stem out of the stubble.

Knotters are the same as on the famous "77". Proved in thousands of field hours, they tie bale after bale without a miss.

Compact design of the ground-hugging "66" gives you a bird's-eye view from pickup to bale chute from the tractor seat.

You'll get best results from your "66"—or any twine-tie—with New Holland Twine, certified by the U. S. Testing Co.

The price?

ONLY

$1665.00*

FOR A NEW HOLLAND "66" TWINE-TIE IN COMPLETE BALING TRIM

Ask for a demonstration

When you see your New Holland dealer, be sure to ask about the new Super "77"—the fastest twine-tie baler in the world!

*Suggested list price, F.O.B. New Holland, plus Federal tax on tubes and tires.

NEW HOLLAND *"First in Grassland Farming"*

"I Love to Garden with my ROTO-HOE"

Yes, ROTO-HOE is so easy to operate that women enjoy using it too. And it's easy to buy—still selling at the low, low 1947 price, due to the tremendous customer acceptance it has earned—ROTO-HOE **complete** costs only $134.

ROTO-HOE

EXTRA DIVIDENDS. Not only is ROTO-HOE first cost most modest, but there is a complete line of attachments all using the same basic power unit, all easily and quickly interchangeable in minutes. All are thoroughly engineered and "field-proven" and the cost is amazingly low. You can pump, spray, saw wood, throw snow, mow, trim and edge lawns as well as cultivate and till gardens.

GET THE FACTS

ROTO-HOE's nation wide distribution means there's a dealer near you. Write today for free color catalog and nearest dealer's name.

ROTO-HOE & SPRAYER COMPANY
Box 66 Newbury, Ohio

NEW Sweet & Tender "Butter Nugget"
FREEZER SWEET CORN

Best for freezing, on cob or "cut off"

Pencil-thin cobs! Tenderest kernels of all! Superb hybrid quality. Slender 8-inch ears with 8-10 rows of sweetest butter-yellow kernels you've ever tasted! Plant some specially for freezing. Read all about it and other hybrid vegetables for freezing in big, colorful Seed & Nursery Catalog. Sent FREE! Write.

76-page Catalog FREE!

FARMER SEED & NURSERY
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GIANT SHAGGY **ASTERS**
RED ★ WHITE ★ BLUE ★

3-15c Packets, ONLY 10c. 45c Value Red, White & Blue. Gorgeous 5 in. Blooms. 2½ in. thick, on stately stems. Send 10c for these lovely asters and will include Big Seed, Plant & Nursery Catalog. **FREE**

R. H. SHUMWAY Seedsman, Dept. 467, Rockford, Illinois

BLUE SPRUCE Trees

Colorado Blue. Very superior, well-branched 6-year old transplants, 8 to 14 inches tall. Sent postpaid at planting time. For complete catalog of Evergreens, Fruit & Shade Trees write Box 23-B.

5 FOR $3.50

MUSSER FORESTS, Inc. INDIANA, PA.

Grow plants with ease — use
TOM THUMB FLATS
with VITA-PLANT Bands

Nourish new plants, prevent root shock when transplanting. Gain 1-3 weeks' growing time. Flat size 8½" x 6½" x 2½". Flat and 12 bands, 30¢. 5 for $1.25. 10 for $2.00 postpaid.

SNAPDRAGON GARDEN

Beautiful tall spikes of rust-resistant snapdragons. One full-size packet of each of following colors: rose, white, pink, crimson, yellow, cherry. All 6 packets, postpaid - - - **25c**

Send Today For Your
FREE SEED CATALOG

Our 67th year. Big free 80-page catalog features many new items. Here are just a few: Cactus Flowering Zinnia Blaze, 25¢ pkt. (2 pkts. 45¢) Wisconsin Golden 900 Hybrid Sweet Corn - - - 15¢ pkt. (2 pkts. 25¢) Bells of Ireland, 20¢ pkt. (2 pkts. 35¢)

L. L. OLDS SEED CO.
DEPT. 17 MADISON 1, WIS.

VAC-A-WAY
SEED CLEANER & GRADER

GRADES WHILE IT CLEANS
Removes dirt, stems, and unwanted weed seeds. At same time separates cleaned seed into TWO GRADES. Breed up your seed. Make planting easier — stand evener — plant only choice kernels of uniform size. IMPROVE YIELDS.
VAC-A-WAY cleans oats, wheat, barley, soybeans, clover, lespedeza, alfalfa, etc.
FARM & CUSTOM sizes. Electric, gasoline, and hand models.
SEE YOUR DEALER OR WRITE
J. W. HANCE MFG. CO. Westerville, Ohio
VAC-A-WAY SEED CLEANERS — TREAT-A-MATIC SEED TREATERS

20 Bulbs - Deluxe Mixture **GLADIOLUS** 25¢
REGULAR VALUE $1.00
50th anniversary offer

Size ¾ to one inch across "Not Bulblets." Guaranteed to bloom this summer. 10 or more varieties in this mixture. Send 25c in coin for this $1.00 Value, and we will include Big Bulb, Plant & Seed Catalog. **FREE**

CONDON BROS. SEEDSMEN Dept. 174 Rockford, ILL.

FREE VEGETABLE GARDEN GUIDE

Write for free garden guide and bargain Plant offers—tells how to grow EARLY VEGETABLES—Cabbage, Onion, Lettuce, Broccoli, Cauliflower, Collard, Tomato, Potato, Egg Plant, Pepper Plants described with cultural directions. Special early order bonus.

PIEDMONT PLANT CO., BOX 867-N, ALBANY, GA.

SHIVERS **STRAWBERRY PLANTS**

Write for catalog, fully describing all varieties, with best methods of growing them. Satisfaction Guaranteed.

J. H. SHIVERS, 54 Main St., Allen, Md.

These are our famous
GIANT DAHLIA-FLOWERED
ZINNIAS
that bring us thousands of friends!

Henry Field

FREE!
Just send 3¢ for postage

THREE PACKETS OF OUR BEST SEED
1 YELLOW—1 ORANGE—1 RED
Colorful beauty right up to frost

Here's a gorgeous flower bed that's free! Three colors — orange, red, yellow — in separate packets, will give you a riot of beauty right on to frost. They'll grow anywhere, and are so big and beautiful that folks are always surprised. Genuine GIANT DAHLIA-FLOWERED ZINNIAS with cheery double flowers set off by rich foliage. Just put your name in the coupon and enclose a 3¢ stamp with this ad—and they're yours!

HENRY FIELD Seed & Nursery Co.
810 Oak St., Shenandoah, Iowa
Yes, I'd like those three packets of Zinnia seed. Don't forget my copy of your new catalog. My 3¢ stamp is enclosed.
Name.....
St. or Rt.....
P.O.....State.....

All-America vegetables for 1954

Crisp, fresh vegetables right out of the farm garden—that's what makes farm living *good* living.

And you can make that garden give you even a *better* living if you check the new All-America vegetable list below. These vegetables passed judges, a jury, and a council of garden and flower experts before being chosen. Here's how.

First, each variety was entered at each of the 21 trial grounds in the United States. A resident judge watched them through the season, and ranked them by points on their good characters at the end of the season.

Then, a reviewing committee, or jury, examined the top varieties for their performance in America's gardens. After that, a council, made up of vegetable and flower judges, voted on the varieties.

For 1954, no new All-America selections were made. Instead, the winners for the last 21 years of contests were considered. The list that follows includes only the best of the past winners. Twenty-four varieties of 24 vegetables are listed here. Take your pick for better eating in 1954.

Lima bean—Fordhook 242
Snap bean—Topcrop
Beet—Perfected Detroit
Savoy cabbage—Chieftan
Plain cabbage—Penn State Ballhead
Cantaloupe—Honey Rock
Carrot—Imperator
Cauliflower—Ideal Snowball
Sweet corn—Iochief
Cucumber—Marketer
Endive—Full Heart Batavian
Head lettuce—Great Lakes
Leaf lettuce—Salad Bowl
Okra—Clemson Spineless
Onion—Sweet Spanish, Utah Strain
Parsley—Paramount
Pea—Freezonian
Pepper—Sweet Banana
Radish—Cherry Belle
Spinach—America
Squash—Early Prolific Straightneck
Tomato—Pritchard
Southern watermelon—Congo
Northern watermelon—N. H. Midget.

Do you plan to move?

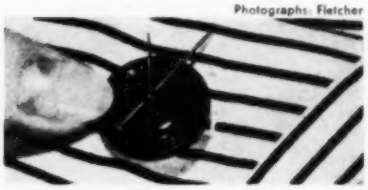
If you are going to move, please let us know five weeks beforehand if possible. Send your change of address to *Successful Farming*, Des Moines 3, Iowa, giving both your *old* and *new* addresses.

Sew like a professional

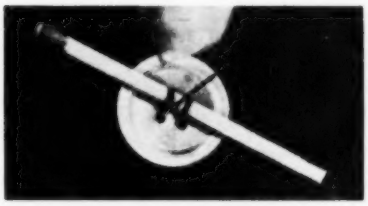
Put buttons on to stay

To sew a button on right, you need a little expert "know-how." A button that's used for fastening has to stand the strain of daily wear. So when you sew it on, allow a little "give" for easy fastening.

Photographs: Fletcher



For dresses, shirts, and other garments of lightweight fabric: Hold a pin over top of button and sew over it. After sewing, remove the pin. This leaves some slack



For coats and jackets made of heavier fabric: Hold a match across the button and sew over it with each stitch. Remove the match, pull the button away from the coat, wind thread under the button for a shank

For overcoats and topcoats: Use match as shown in preceding photograph. Also, use a small button on the inside of the coat for reinforcement. Sew through both buttons, and over the match with each stitch

Form a tough shank, or stem, for buttons by winding thread around underneath the button after match has been removed. Timesaver: Sew with 4 strands of thread

THE Cyclone

Power Seed and Fertilizer Distributors

Economical and Dependable

Pays for itself with fast, easy broadcasting of grain and grass seed (including brome) and fertilizer. 1 to 5 bushels capacity. Power take-off or motor driven. Send for free literature and our booklet on grass land information.

THE CYCLONE SEEDER CO., INC.
Urbana 8, Indiana, U. S. A.

Royal-robe-purple color climbing **CLEMATIS**

MAKES A BRILLIANT PURPLE CURTAIN OF GIANT BLOOMS UP TO 6 INCHES ACROSS!

A spectacular display nearly all summer! Bears hundreds of large, vivid, velvety-purple flowers on vines up to 10 feet high. Thrives in partial shade. Every home has just the spot for it. Sturdy pot-grown plants. Read all about them in big FREE Catalog.

FARMER SEED & NURSERY
12 E. 12th, Faribault, Minnesota

GIANT BEEFSTEAK **TOMATO**

The Nation's Favorite For Home Gardens. Almost Seedless. Large handsome bright red fruits, average ½ lb. Skin is smooth and just thick enough to prevent cracking. Flesh is thick-meated and firm like good beefsteak from which it received its name. Write today for 125 Seed of this unbeatable Giant Tomato, and Copy of our Big Colored Catalog. Send 3c stamp for postage. **FREE**

CONDON BROS. SEEDSMEN Dept. 173 Rockford, Illinois

EARLIEST TOMATO

JUNG'S WAYAHEAD

BIG RED FRUITS AS EARLY AS JULY 4th! Regular price 15c per pkt., but to introduce Jung's Quality Seeds, we will send a trial pkt. of this Tomato, Tender Core Carrot, All Cream Lettuce, Earliest Radishes and a large pkt. of beautiful favorite SUMMER GLORY FLOWERS that bloom from early summer 'til late frost. All for 10c, in Canada 25c. Full color catalog of bargains in seeds, plants, shrubs, hybrid corn, certified seed grains. Coupons for Rare Premiums in each catalog.

J. W. JUNG SEED CO.
Dept. 74 • Randolph, Wisconsin

easier with new PARAGON Power Sprayer

One man with this compact 12-gal. Paragon can *effectively* spray insecticides, disinfectants, weed killers, whitewash, water-based cement paints, silicone-type waterproofing compounds. Latest type spray gun produces mist for wide coverage, or stream 25 feet high. Pump delivers up to 1½ gals. a minute. Low priced. See your dealer or write for catalog.
51 State Avenue
Harrison, Ohio

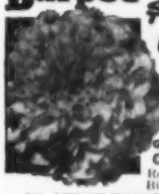
CAMPBELL-HAUSFELD

EXTRA SPECIAL! **6 Rhododendron and 6 Azaleas** ALL 12 PLANTS, only $5.95

All two-year transplants 3" to 8" tall in individual planting bands, abundance of fine roots, large leaves. Both varieties hardy, prefer partial shade, acid soil. Rhododendrons in mixed colors—orchid, rose, red. Azaleas—3 orange, 3 red. An outstanding value, will give gorgeous flowers for extra beauty. All 12 plants postpaid at proper planting time. For complete evergreen catalog write

MUSSER FORESTS, INC., Box 23-B, Indiana, Pa.

Burpee WILL PAY $10,000. for a WHITE Marigold



New 'Man-in-the-Moon', nearest to white, may produce a white one in your garden. Help us find it—you may earn $10,000. Seed supply limited, order today! Get-Acquainted Pkt. 10¢

Catalog-Size Pkt. 25c—1/16 oz. $1.

Read about this $10,000 offer in Burpee's Big Seed Catalog we'll send you FREE.

W. ATLEE BURPEE CO., 591 Burpee Building, Philadelphia 32, Pa. or Clinton, Iowa or Riverside, Calif.

New Giant DAHLIAS

NEVER BEFORE OFFERED

2 BULBS for 25¢ POSTPAID

ONE BULB EACH RED CHIEF, LAVENDER BLUE

Grows 12" to 15" flowers on strong, sturdy stems. Separately labelled. Culture included. Send only 25c for 2, 50c for 4, $1 for 8 and Seed & Nursery Catalog.

R. H. SHUMWAY Seedsman, Dept. 465, Rockford, Illinois

★ Red ★ Yellow ★ Pink

CARNATIONS

HENRY FIELD

(Each color in separate packet)

"Thousands of our finest customers came to us through this carnation offer."

FREE! JUST SEND 3¢ STAMP FOR POSTAGE

Fragrant as perfume—hardy as zinnias—bloom all summer. Our carnation offer brings you a whole summer of colorful blooms—a flower that always thrills with its beauty and fragrance. Hardy, grow anywhere, bloom all summer—and you'll love the delicate pinks and yellows—the bold reds. All yours *free*—the 3¢ stamp's just for postage—to win you as another good friend for Henry Field's. Why not send this ad in today?

"Bloom in your garden like those in the greenhouse...yellow, pink, red. Gorgeous blooms right up 'till frost."

HENRY FIELD Seed & Nursery Co.
617 Oak St., Shenandoah, Iowa

Please send me those carnation packets, free. My 3¢ postage is enclosed. I'd like your new catalog, too.

Name.....

St. or Rt.....

Postoffice.....State.....

"I Love to Garden with my ROTO-HOE"

Yes, ROTO-HOE is so easy to operate that women enjoy using it too. And it's easy to buy—still selling at the low, low 1947 price, due to the tremendous customer acceptance it has earned—ROTO-HOE **complete** costs only $134.

ROTO-HOE

EXTRA DIVIDENDS. Not only is ROTO-HOE first cost most modest, but there is a complete line of attachments all using the same basic power unit, all easily and quickly interchangeable in minutes. All are thoroughly engineered and "field-proven" and the cost is amazingly low. You can pump, spray, saw wood, throw snow, mow, trim and edge lawns as well as cultivate and till gardens.

GET THE FACTS

ROTO-HOE's nation wide distribution means there's a dealer near you. Write today for free color catalog and nearest dealer's name.

ROTO-HOE & SPRAYER COMPANY
Box 66 Newbury, Ohio

NEW Sweet & Tender "Butter Nugget"
FREEZER SWEET CORN

Best for freezing, on cob or "cut off"

Pencil-thin cobs! Tenderest kernels of all! Superb hybrid quality. Slender 8-inch ears with 8-10 rows of sweetest butter-yellow kernels you've ever tasted! Plant some specially for freezing. Read all about it and other hybrid vegetables for freezing in big, colorful Seed & Nursery Catalog. Sent FREE! Write.

76-page Catalog FREE!

FARMER SEED & NURSERY
12 E. 8th, FARIBAULT, MINNESOTA

GIANT SHAGGY **ASTERS**
RED ★ WHITE ★ BLUE ★

3-15¢ Packets, ONLY 10c. 45c Value Red, White & Blue. Gorgeous 5 in. Blooms, 2½ in. thick, on stately stems. Send 10c for these lovely asters and will include **Big Seed, Plant & Nursery Catalog.** **FREE**

R. H. SHUMWAY Seedsman, Dept. 487, Rockford, Illinois

BLUE SPRUCE Trees

Colorado Blue. Very superior, well-branched 6-year old transplants, 8 to 14 inches tall. Sent postpaid at planting time. For complete catalog of Evergreens, Fruit & Shade Trees write Box 23-B.

5 FOR $3.50

MUSSER FORESTS, Inc. INDIANA, PA.

Grow plants with ease — use
TOM THUMB FLATS
with VITA-PLANT Bands

Nourish new plants, prevent root shock when transplanting. Gain 1-3 weeks' growing time. Flat size 8½" x 6½" x 2½". Flat and 12 bands, 30¢. 5 for $1.25. 10 for $2.00 postpaid.

SNAPDRAGON GARDEN

Beautiful tall spikes of rust-resistant snapdragons. One full-size packet of each of following colors: rose, white, pink, crimson, yellow, cherry. All 6 packets, postpaid - - - **25c**

Send Today For Your
FREE SEED CATALOG

Our 67th year. Big free 80-page catalog features many new items. Here are just a few: **Cactus Flowering Zinnia Blaze, 25¢ pkt. (2 pkts. 45¢) Wisconsin Golden 900 Hybrid Sweet Corn - - - 15¢ pkt. (2 pkts. 25¢) Bells of Ireland, 20¢ pkt. (2 pkts. 35¢)**

L. L. OLDS SEED CO.
DEPT. 57 MADISON 1, WIS.

VAC-A-WAY
SEED CLEANER & GRADER

GRADES WHILE IT CLEANS
Removes dirt, stems, and unwanted weed seeds. At same time separates cleaned seed into TWO GRADES.
Breed up your seed. Make planting easier — stand evener — plant only choice kernels of uniform size. IMPROVE YIELDS.
VAC-A-WAY cleans oats, wheat, barley, soybeans, clover, lespedeza, alfalfa, etc.
FARM & CUSTOM sizes. Electric, gasoline, and hand models.
SEE YOUR DEALER OR WRITE
J. W. HANCE MFG. CO. Westerville, Ohio
VAC-A-WAY SEED CLEANERS — TREAT-A-MATIC SEED TREATERS

20 *Bulbs - Deluxe Mixture* **GLADIOLUS** 25¢
REGULAR VALUE $1.00

50th anniversary offer

Size ¾ to one inch across "Not Bulblets." Guaranteed to bloom this summer. 10 or more varieties in this mixture. **Send 25c in coin for this $1.00 Value,** and we will include Big Bulb, Plant & Seed Catalog. **FREE**

CONDON BROS. SEEDSMEN Dept. 174 Rockford, ILL.

FREE VEGETABLE GARDEN GUIDE

Write for free garden guide and bargain Plant offers—tells how to grow EARLY VEGETABLES—Cabbage, Onion, Lettuce, Broccoli, Cauliflower, Collard, Tomato, Potato, Egg Plant, Pepper Plants described with cultural directions. Special early order bonus.

PIEDMONT PLANT CO., BOX 867-N, ALBANY, GA.

SHIVERS **STRAWBERRY PLANTS**

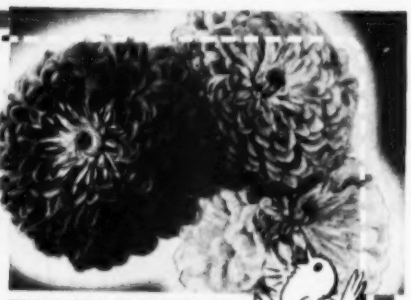
Write for catalog, fully describing all varieties, with best methods of growing them. Satisfaction Guaranteed.

J. H. SHIVERS, 54 Main St., Allen, Md.

These are our famous
GIANT DAHLIA-FLOWERED
ZINNIAS
that bring us thousands of friends!

Henry Field

FREE! Just send 3¢ for postage



THREE PACKETS OF OUR BEST SEED
1 YELLOW—1 ORANGE—1 RED
Colorful beauty right up to frost

Here's a gorgeous flower bed that's free! Three colors — orange, red, yellow — in separate packets, will give you a riot of beauty right on to frost. They'll grow anywhere, and are so big and beautiful that folks are always surprised. Genuine GIANT DAHLIA-FLOWERED ZINNIAS with cheery double flowers set off by rich foliage. Just put your name in the coupon and enclose a 3¢ stamp with this ad—and they're yours!

HENRY FIELD Seed & Nursery Co.
818 Oak St., Shenandoah, Iowa

Yes, I'd like those three packets of Zinnia seed. Don't forget my copy of your new catalog. My 3¢ stamp is enclosed.

Name.....

St. or Rt.....

P.O.....State.....

All-America vegetables for 1954

Crisp, fresh vegetables right out of the farm garden—that's what makes farm living *good* living.

And you can make that garden give you even a *better* living if you check the new All-America vegetable list below. These vegetables passed judges, a jury, and a council of garden and flower experts before being chosen. Here's how.

First, each variety was entered at each of the 21 trial grounds in the United States. A resident judge watched them through the season, and ranked them by points on their good characters at the end of the season.

Then, a reviewing committee, or jury, examined the top varieties for their performance in America's gardens. After that, a council, made up of vegetable and flower judges, voted on the varieties.

For 1954, no new All-America selections were made. Instead, the winners for the last 21 years of contests were considered. The list that follows includes only the best of the past winners. Twenty-four varieties of 24 vegetables are listed here. Take your pick for better eating in 1954.

Lima bean—Fordhook 242
Snap bean—Topcrop
Beet—Perfected Detroit
Savoy cabbage—Chieftan
Plain cabbage—Penn State Ballhead
Cantaloupe—Honey Rock
Carrot—Imperator
Cauliflower—Ideal Snowball
Sweet corn—Iochief
Cucumber—Marketer
Endive—Full Heart Batavian
Head lettuce—Great Lakes
Leaf lettuce—Salad Bowl
Okra—Clemson Spineless
Onion—Sweet Spanish, Utah Strain
Parsley—Paramount
Pea—Freezonian
Pepper—Sweet Banana
Radish—Cherry Belle
Spinach—America
Squash—Early Prolific Straightneck
Tomato—Pritchard
Southern watermelon—Congo
Northern watermelon—N. H. Midget.

Do you plan to move?

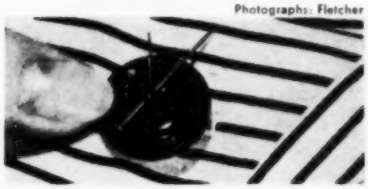
If you are going to move, please let us know five weeks beforehand if possible. Send your change of address to *Successful Farming*, Des Moines 3, Iowa, giving both your *old* and *new* addresses.

Sew like a professional

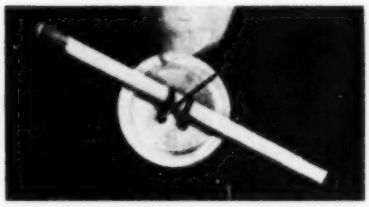
Put buttons on to stay

To sew a button on right, you need a little expert "know-how." A button that's used for fastening has to stand the strain of daily wear. So when you sew it on, allow a little "give" for easy fastening.

Photographs: Fletcher

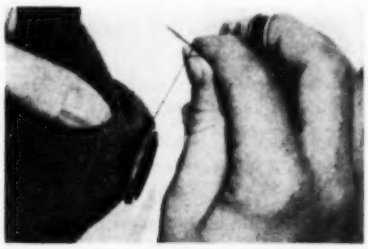


For dresses, shirts, and other garments of lightweight fabric: Hold a pin over top of button and sew over it. After sewing, remove the pin. This leaves some slack



For coats and jackets made of heavier fabric: Hold a match across the button and sew over it with each stitch. Remove the match, pull the button away from the coat, wind thread under the button for a shank

For overcoats and topcoats: Use match as shown in preceding photograph. Also, use a small button on the inside of the coat for reinforcement. Sew through both buttons, and over the match with each stitch



Form a tough shank, or stem, for buttons by winding thread around underneath the button after match has been removed. Timesaver: Sew with 4 strands of thread

THE Cyclone

Power Seed and Fertilizer Distributors

Economical and Dependable

Pays for itself with fast, easy broadcasting of grain and grass seed (including brome) and fertilizer. 1 to 5 bushels capacity. Power take-off or motor driven. Send for free literature and our booklet on grass land information.

THE CYCLONE SEEDER CO., INC.
Urbana 8, Indiana, U. S. A.

Royal-robe-purple color climbing **CLEMATIS**

MAKES A BRILLIANT PURPLE CURTAIN OF GIANT BLOOMS UP TO 6 INCHES ACROSS!

A spectacular display nearly all summer! Bears hundreds of large, vivid, velvety-purple flowers on vines up to 10 feet high. Thrives in partial shade. Every home has just the spot for it. Sturdy pot-grown plants. Read all about them in big FREE Catalog.

FARMER SEED & NURSERY
12 E. 12th, Faribault, Minnesota

GIANT BEEFSTEAK **TOMATO**

The Nation's Favorite For Home Gardens. Almost Seedless. Large handsome bright red fruits, average ½ lb. Skin is smooth and just thick enough to prevent cracking. Flesh is thick-meated and firm like good beefsteak from which it received its name. Write today for 125 Seed of this unbeatable Giant Tomato, and Copy of our Big Colored Catalog. Send 3c stamp for postage. **FREE**

CONDON BROS. SEEDSMEN Dept. 173 Rockford, Illinois

EARLIEST TOMATO

JUNG'S WAYAHEAD

BIG RED FRUITS AS EARLY AS JULY 4th! Regular price 15c per pkt., but to introduce Jung's Quality Seeds, we will send a trial pkt. of this Tomato, Tender Core Carrot, All Cream Lettuce, Earliest Radishes and a large pkt. of beautiful favorite SUMMER GLORY FLOWERS that bloom from early summer 'til late frost. All for 10c, in Canada 25c. Full color catalog of bargains in seeds, plants, shrubs, hybrid corn, certified seed grains. Coupons for Rare Premiums in each catalog.

J. W. JUNG SEED CO.
Dept. 74 • Randolph, Wisconsin

easier with new PARAGON Power Sprayer

One man with this compact 12-gal. Paragon can *effectively* spray insecticides, disinfectants, weed killers, whitewash, water-based cement paints, silicone-type waterproofing compounds. Latest type spray gun produces mist for wide coverage, or stream 25 feet high. Pump delivers up to 1½ gals. a minute. Low priced. See your dealer or write for catalog.
51 State Avenue
Harrison, Ohio

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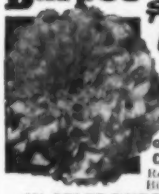
EXTRA SPECIAL! **6 Rhododendron and 6 Azaleas** ALL 12 PLANTS, only $5.95

All two-year transplants 3" to 8" tall in individual planting bands, abundance of fine roots, large leaves. Both varieties hardy, prefer partial shade, acid soil. Rhododendrons in mixed colors—orchid, rose, red. Azaleas—3 orange, 3 red. An outstanding value, will give gorgeous flowers for extra beauty. All 12 plants postpaid at proper planting time. For complete evergreen catalog write

MUSSER FORESTS, INC., Box 23-B, Indiana, Pa.

Burpee WILL PAY $10,000. for a WHITE Marigold



New 'Man-in-the-Moon', nearest to white, may produce a white one in your garden. Help us find it—you may earn $10,000. Seed supply limited, order today! Get-Acquainted Pkt. 10¢

Catalog-Size Pkt. 25c—1/16 oz. $1.

Read about this $10,000 offer in Burpee's Big Seed Catalog we'll send you FREE.

W. ATLEE BURPEE CO., 591 Burpee Building, Philadelphia 32, Pa. or Clinton, Iowa or Riverside, Calif.

New Giant DAHLIAS

NEVER BEFORE OFFERED

2 BULBS for 25¢ POSTPAID

ONE BULB EACH RED CHIEF, LAVENDER BLUE

Grows 12" to 15" flowers on strong, sturdy stems. Separately labelled. Culture included. Send only 25c for 2, 50c for 4, $1 for 8 and Seed & Nursery Catalog.

R. H. SHUMWAY Seedsman, Dept. 465, Rockford, Illinois

★ Red ★ Yellow ★ Pink

CARNATIONS

HENRY FIELD

(Each color in separate packet)

"Thousands of our finest customers came to us through this carnation offer."

FREE! JUST SEND 3¢ STAMP FOR POSTAGE

"Bloom in your garden like those in the greenhouse...yellow, pink, red. Gorgeous blooms right up 'till frost."

Fragrant as perfume—hardy as zinnias—bloom all summer. Our carnation offer brings you a whole summer of colorful blooms—a flower that always thrills with its beauty and fragrance. Hardy, grow anywhere, bloom all summer—and you'll love the delicate pinks and yellows—the bold reds. All yours *free*—the 3¢ stamp's just for postage—to win you as another good friend for Henry Field's. Why not send this ad in today?

HENRY FIELD Seed & Nursery Co.
617 Oak St., Shenandoah, Iowa

Please send me those carnation packets, free. My 3¢ postage is enclosed. I'd like your new catalog, too.

Name.....

St. or Rt.....

Postoffice.....State.....

Relieve the PRESSURE of Neuralgic Pain!

Doctors generally will tell you that neuralgic pain may be largely caused by pressure. Sensitive nerves are irritated, local areas tender, swollen.

You can get blessed relief—*fast*—by rubbing Absorbine Jr. on the sore, swollen areas. It actually helps to *counteract* the pressure! At the same time, it warms and soothes. Buy it at any drug counter.

W. F. Young, Inc., Springfield, Mass.

ABSORBINE Jr.

peppermint stick ZINNIAS

Speckled and striped; a different type. Numerous combined colors. Thick, medium flower heads. Send for big packet 10¢ CATALOG FREE

R. H. SHUMWAY Seedsman, Dept. 468, Rockford, Illinois

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Buy from Grower Wholesale

MUSSER FORESTS, Inc. INDIANA, PA.

KILL RATS WITH **warfarin**

WISCONSIN ALUMNI RESEARCH FOUNDATION

FOR COWS *Sick or Off Feed* Due to Ketosis

BIONATE New Low-Cost Way To Boost Blood Sugar

★ First, safe effective treatment for ketosis or acetonemia to be given by mouth — in feed or as a drench. 5 Lbs. treats several mild or a very severe case for 10 days. Price $5.95.

Holt Products Co., Box 840, Milwaukee 1, Wis.

ONE-MAN SAWMILL LOW AS $50.00 DOWN

Take BELSAW Portable Sawmill right to the trees—turn out valuable lumber for home and farm — sell to local yards — make up to $50 a day custom sawing for neighbors. BELSAW lasts a lifetime. No crew needed. Power with tractor or auto engine. Beginners get excellent results. Send today for FREE BOOK, "HOW TO MAKE LUMBER".

FREE BOOK

BELSAW MACHINERY CO
8105 Field Bldg., Kansas City 11, Mo.

The most-asked questions about

Basal spray

Photograph: Fletcher

No regrowth here. Wild grape and most other woody plants are completely killed

By Fred Slife
University of Illinois

Basal treatment is the newest way to kill trees, brush, and vines—you simply spray 2,4,5-T mixed with fuel oil or kerosene around the trunk. The treatment is usually more effective than spraying the leaves, and there is no drift hazard. Also, you can do it in winter when you have more time.

Here are details on this basal-treatment method people are asking about.

Is the spray poisonous to livestock?

No, 2,4,5-T is *not* poisonous to animals. Stock can be left in the pastures even when the 2,4,5-T is being applied.

How far up the trunk should basal spray be applied?

About 15 inches from the ground line is high enough. It is very important to cover the bark completely around the trunk. Soak to the point of runoff.

Where can I buy 2,4,5-T?

Implement companies, feed and seed stores, and service companies usually carry it.

2,4,5-T is more expensive than 2,4-D. Will 2,4-D do the job as well?

When basal treatment is being used on a variety of trees and brush, the 2,4,5-T should be used. It kills better and you'll have less resprouting than with 2,4-D or 2,4-D and 2,4,5-T mixed.

Is it cheaper to basal-treat brush in a drainage ditch or have it cut?

Basal treatment should be much cheaper over a period of a few years. The initial cost of basal treatment probably will be more than one cutting of brush, but basal treatment finishes off the brush.

Can I basal-treat in summer?

This treatment is effective at any time during the year, but there is no drift hazard in winter.

Will basal treatment help prevent sprouting of stumps?

Yes. Completely cover stump.

How soon after spraying can treated brush be removed?

It is usually best to wait at least a year to be certain that no regrowth occurs and that the root system is dead. Then it can be pulled with a tractor. If thick enough, burn standing brush.

If you want immediate brush removal, cut it green and treat the stubs. Heavy-duty stalk cutters are sometimes used to cut green brush before treating.

Can the basal treatment be used on low-growing brush?

Basal treatment is just as effective on wild blackberries, poison ivy, and other low-growing brush as it is on tall trees. These often grow up in such a tangle, however, that you may want to use a foliage spray.

Can sprouts from stumps be controlled by basal treatment?

Basal treatments will control sprouts coming from old stumps. Cover the old stump completely, also.

Can a dye be added to the spray to tell what trees you have treated?

Any oil-soluble dye can be used to mark treated areas. Strained and thinned paint will do. Use very little. END

Start your planting with this idea:

INTERNATIONAL TRUCKS

keep costs down on the farm

Plant this idea in your mind right now: INTERNATIONAL Pickup Trucks are the first choice of cost-conscious farmers. They've found that an INTERNATIONAL costs little to operate, and *keeps operating* at low cost throughout its long life.

One reason is famous INTERNATIONAL *quality*. The same tough-job engineering that has made INTERNATIONAL the heavy-duty sales leader for 22 straight years, is built into *every* INTERNATIONAL.

Another reason: You can choose exactly the right truck for *your* needs from 9 INTERNATIONAL Pickup Models. Each has the cab designed by drivers *for* drivers—INTERNATIONAL'S Comfo-Vision cab. You drive in comfort, on a seat nearly 5 feet wide. There's enough head room and leg room for the biggest driver in the business. You get real visibility, with a one-piece curved Sweepsight windshield. Non-glare, green-tinted safety glass is available.

9 INTERNATIONAL Pickup Models to choose from. 6½, 8, and 9-foot bodies. 115 to 134-inch wheelbases. GVW ratings 4,200 to 8,600 lbs. AD-A-RAK attachments, as shown below, available to provide higher, grain-tight sides and a detachable rack. Hauls up to 75% more, easier, at lowest cost.

For the 1001 jobs you have to get done, pick the pickup that keeps costs down on the farm. Let your INTERNATIONAL Truck Dealer or Branch show you how little it costs you to own.

INTERNATIONAL HARVESTER COMPANY • CHICAGO

International Harvester Builds **McCORMICK**® Farm Equipment and **FARMALL**® Tractors . . . Motor Trucks . . . Industrial Power . . . Refrigerators and Freezers.

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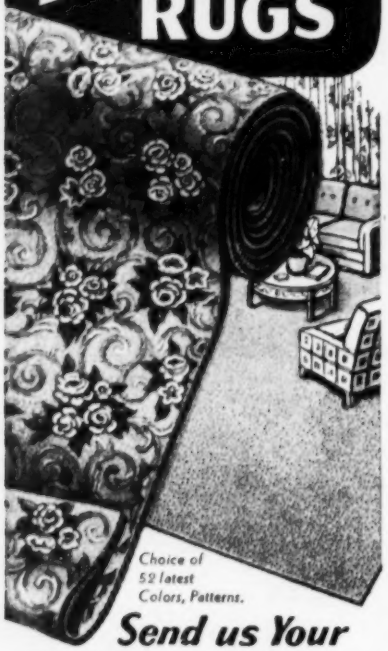
"Standard of the Highway"

SAVE UP TO 1/2 on Lovely New BROADLOOM RUGS



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It's All So Easy! Write today for the Free Olson Rug *Catalog* (28 model rooms in color) that tells how your materials are picked up at your door and shipped at our expense to the Olson Factory, where . . .

By the Scientific Olson Process we sterilize, shred, merge materials of all kinds—reclaim and separate the valuable wools, etc., then bleach, picker, card, spin, redye and weave lovely, deep-wool-textured new . . .

TWO-SIDED BROADLOOM RUGS

. . . in sizes for all needs up to 16 feet seamless and any length, in all the newest:

Solid Colors	18th Century	Embossed Effects
Two-tone	Early American	Tone-on-tone
Tweed Blends	Oriental Designs	Florals, Ovals

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Chicago New York
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FREE CATALOG IN COLORS

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OLSON RUG CO., N-26, Chicago 41, Ill.
Please mail the Olson Rug Catalog FREE to—
NAME
ADDRESS
TOWN STATE

". . . My Olson Rugs are the most beautiful rugs I've ever had. I've been using your rugs for 25 years." *Mrs. G. E. T., Winston Salem, N. Carolina.*

Photographs: Suter, Hedrich-Blessing, Stanley

Angel-food cakes

—*quicker, easier*

By Jan Maple

Mrs. Harold Florin, Rock County, Wisconsin, bakes a mighty fine angel-food cake. She uses frozen egg whites, and she uses her electric mixer. She says, "The frozen eggs give me better cakes—I have to bake them longer than I used to, because they're bigger. And freezing is the perfect way to save our many broken eggs." Here is her recipe:

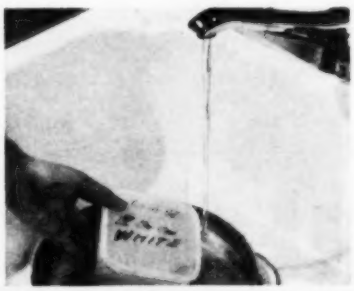
Best Angel-food Cake

1 cup sifted cake flour	1½ teaspoons cream of tartar
¾ cup sugar	¾ cup sugar
1¾ cups egg whites	1 teaspoon vanilla
¾ teaspoon salt	¼ teaspoon almond extract

Sift flour and ¾ cup sugar together 4 times. Beat egg whites with salt until foamy. (Use electric mixer, medium to high speed.) Sprinkle in cream of tartar and beat until stiff enough to hold definite peaks, but not dry. At high speed, beat in remaining ¾ cup sugar, 1 tablespoon at a time, until sugar is *just* blended. Add vanilla and almond extract; mix only till blended. Turn off mixer. Fold in flour-sugar mixture in 4 parts, using 15 folding strokes after each addition. Fold with 15 more strokes. Pour into ungreased 10-inch tube pan. Tap pan gently to fill air pockets. Bake at 375° (moderate), 35 minutes.

How Mrs. Florin prepares

Separate yolks and whites. Add 1 teaspoon of salt, or 1 tablespoon sugar to each pint of yolks, and stir them gently



To thaw egg whites, put the container in a bowl under cool, running water—be sure the freezer container is watertight

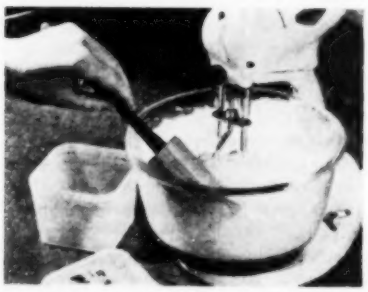
My electric mixer whips egg whites stiff in a hurry. I use frozen egg whites — no separating to do before starting the cake ◀

Two cakes are as easy as one, once ingredients are assembled, and it's economical to make full use of oven when it's hot

Frothy cooked icing goes on the one cake as soon as it's cool — my mixer again is at work. Unfrosted cake goes in freezer

and uses frozen eggs

Add nothing to the whites. Mix slightly and strain to remove white blobs. Measure amount for 1 cake into each container



Beat the whites with mixer after they are room temperature. Mrs. Florin gets higher cakes by using frozen egg whites. END

Now! TWO for coughs of colds

...BOTH REALLY MEDICATED

with throat-soothing ingredients of Vicks VapoRub

42 MM BINOCULARS
MADE IN GERMANY
Precision ground lenses; center focusing gives exact eye adjustment. Large 42mm objectives. 18 mile range, metal construction. Weight 10 oz. Extra wide field of views. **$3.98** Postpaid

Carrying Case & Shoulder Strap $1 Extra. Satisfaction guaranteed or money promptly refunded. Send check or money order Dept. SFB25
Criterion Co., 331 Church St., Hartford 3, Conn.

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"Recipe for Color" film strip shows techniques. Price of $3.95 includes commentary and booklets. Write Successful Farming, Des Moines 3, Iowa, for details.

Gloxinia 2 BULBS
Beautiful Pot Plants 25¢
Gorgeous, easy to grow house plants, 3" to 4" flowers, last for months. Exquisite mixed colors. Send only 25c for 2; 50c for 4; $1 for 8. Order now. Postpaid with big, Seed and Nursery Book
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DEPT. 463 ROCKFORD, ILLINOIS

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$16 Attachment Converts Horse-Drawn Planter to Ford or Ferguson Tractor

Model 102, Universal Corn Planter Attachment converts horse - drawn planter to **Ford** or **Ferguson Tractor** by inserting only 3 pins . . . Also **VAC Case, John Deere** (46 series) and **all 3-point hook-up** tractors. Planter can be raised and lowered by hydraulic lift, same as regular Ford system implements — $16. Does perfect job of planting and checking corn. All-steel construction. Maneuverable. Finger tip control. Available in **single** or **2 loop** hitch. Also **Model 104** makes **Ford 4-Row** planter. Write for **free circular.**

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FOR ALL MINOR WOUNDS, CHAPS, CRACKED SKIN

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TRIAL SAMPLE 10¢

Livestock news

Add vitamin B_{12} early in gestation period

This year, a lot of feed is not up to par for feeding. That's why it's more important than ever to feed enough vitamin B_{12}—right at the start of gestation.

University of Missouri scientists say vitamin B_{12} fed in time will give you thriftier calves and pigs. It will also prevent bighead calves, and harelip, cleft palate, and short jaw in pigs.

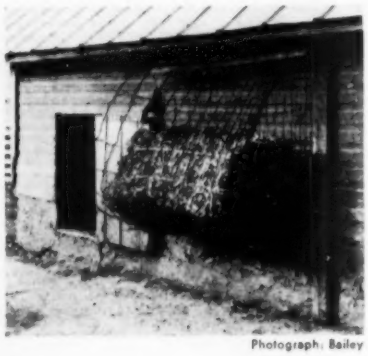
Deformities from this vitamin deficiency are easy to spot, say the animal husbandry researchers. But more common among breeding stock are unthrifty offspring which are the product of poor nutrition. These "poor doers," with their general lack of vigor, cut into profits.

To beat this, you will probably make money adding vitamin B_{12} to the ration of pregnant females early in the gestation period. It is readily available in concentrate form.

• • • •

Hay self-feeder for brood sows

Here is a simple hay self-feeder that encourages sows to eat hay in winter. Emmett Volenberg, Dane County, Wisconsin, uses the idea below to feed hay to sows throughout their gestation periods.



Photograph: Bailey

Volenberg wraps a short piece of woven wire around the bale of hay and hangs it on the side of the hoghouse. He says it works best when tightly bound bales are broken up for the sows.

• • • •

Urea plus corn silage made cheapest gains

Urea, used to replace some of the higher priced proteins fed with corn silage, put cheap pounds on cattle in Michigan tests. Steers getting urea also ate less silage.

The lower cost of urea, plus the saving in corn silage, put on 100 pounds of beef for only $20.85. Purdue supplement with corn silage cost $23.75 for 100 pounds of gain.

Costs of soybean oil meal to make 100 pounds of beef: Corn and soybean oil meal, $24.12; silage and soybean oil meal, $24.85.

Cattle getting urea and soybean oil meal were judged to be worth slightly more per pound. They also looked fatter.

• • • •

Complete beef ration right out of silo

Putting the whole ration into the silo has possibilities.

At Illinois, besides saving work in feeding, it put 2.7 pounds a day on 2-year-old steers—and for only $17.41 a hundred.

The Illinois researchers added 1 pound of ground shelled corn to every 4 pounds of grass silage when they filled the silo. The corn acted as a preservative and seems to have added enough energy to the grass silage to make it a good ration.

Scientists who conducted the test say you should add a higher proportion of grain to the silage when you first start. Then, reduce the amount as silo-filling progresses. This way, you'll be feeding more corn as the silo empties, and finishing your cattle at the same time.

• • • •

Your calves aren't hurt by a low-feeding period

Calves fed only enough to keep up their weight can remain healthy for as long as 6 months—then make economical gains later when fed a liberal ration.

In a test at the U.S.D.A. Experiment Station, Beltsville, Maryland, one of a pair of identical twin Angus steers was placed on a low-energy ration—only enough to maintain his body weight. The other was fed a liberal ration that provided for 1½ pounds of daily gain.

At the beginning of the period each twin weighed about 330 pounds. At the end of 6 months, the twin on short rations weighed 340 pounds, while his well-fed brother weighed 618 pounds. The lighter twin was then placed on a liberal ration. The other continued on a similar ration.

After another 7 months, the heavier twin had reached a slaughter weight of 1,000 pounds. His retarded twin weighed 830 pounds.

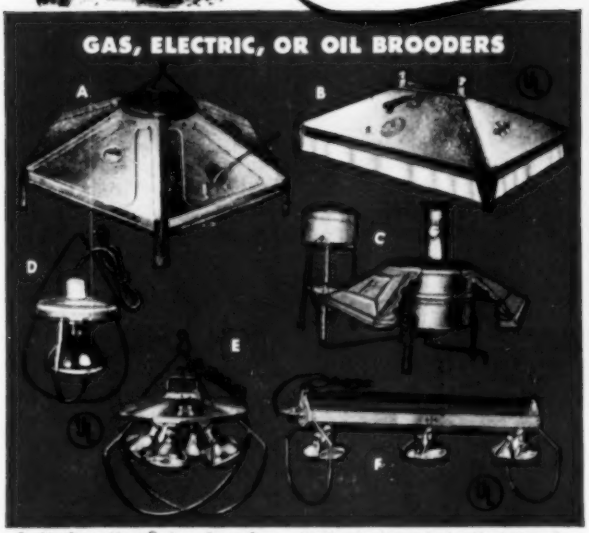
Each of the twin calves needed about the same total amount of feed to reach 1,000 pounds, even though one was fed 70 days longer than the other.

[*Turn to page 178*

Let Hudson Help with your Poultry Chores!

Efficient, Low Cost help with
HUDSON CAREFREE FEEDERS, FOUNTAINS, BROODERS.
Save you time and money . . . give you better chicks!

GAS, ELECTRIC, OR OIL BROODERS



A. Hudson-Hart® Gas Brooder. Self-cleaning burner. Clay fadiants spread heat uniformly. Sensitive valve, automatic thermostat. 500, 750, 1000 chicks.

B. Hudson Lektrik-Hen® Brooder. Completely automatic. Powerful radiant elements. Balanced heat distribution keeps litter dry, prevents huddling. Fully insulated. 100, 300, 500 chicks.

C. Hudson Mother-Hen® Oil Brooder. Save up to 30% on fuel with "Oil-Miser" burner. Needs no cleaning between broods. Micro-Tem* valve gives constant heat control. 500, 750 chicks.

D. Single-Lamp Infra-Red Brooder. Ideal for small broods of chicks, for pigs, lambs, and other jobs needing temporary, auxiliary heat. With protecting guard, as shown.

E. 3- and 4-Lamp Infra-Red Brooders. 4-Lamp model with guard as shown, or without guard, has thermostat control on 2 lamps; handles about 300 chicks, 3-lamp model handles about 250 chicks.

F. 6-Lamp Infra-Red Brooder. Will brood about 500 chicks. Thermostat control on 3 lamps. 48-in. heavy-gauge metal fixture for 6 lamps. Many other uses on the farm to provide auxiliary heat. Complete with guard, as shown.

HUDSON BATTERY BROODERS

A. Hudson Lektrik-Hen® Battery. Available in 2 sizes—with 1 to 5 decks (123 or 247 chicks per deck). Stack perfectly. 150-watt element.

B. Hudson Lektrik-Chik® Brooder. Full size—moderately priced. Holds 123 day-old chicks. Stacks perfectly to make 2 to 5 deck battery. 150-watt element.

The Dealer with this Display has a Complete Stock.

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FAMOUS HUDSON KLEEN-EZY® FEEDERS

A. Round Chick Feeder. For starting baby chicks. 8 holes. 2 color.

B. Slide-Top Chick Feeders. 14, 22, 30 hole sizes. 1 piece 2-color enamelled steel—no seams or cracks.

C. Hudson Chick Feeder. One-piece enamelled steel. No seams, easy to clean. 3 sizes: 18-in., 24-in., 36-in. with non-roost reels.

D. Adjustable Chick Feeders. Hudson-designed legs easily snap to 3 heights—no nuts or bolts. 4-blade non-roost, free-spinning, 3-position strong reels. 36-in., 48-in. sizes.

E. Large Adjustable Broiler Feeder. 48-in. with reel adjustable to 3 positions, or with grill. Legs snap easily into any of 3 positions.

F. Jumbo Size Broiler Feeders. 5 ft. long with grill or with non-roost reel. Adjustable legs fold under trough or stand upright.

G. Hanging Feeder. Holds about 45 lbs. Pan adjustable to 3 positions.

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B. Slide-On Plastic Base. Durable, green, non-corroding plastic. For any liquids. For qt. or 2-qt. jars.

C. Trough Waterer. Foolproof, automatic valve lets water flow as needed. 4-qt. capacity for 500 chicks.

D. Sanitary Chick Fountains. Individual cups in pan keep chicks from wading in water. 1 or 2 gals.

E. Growing, Flock Fountains. Special saucer pan prevents wading. Easy to clean, fill, and carry. Can be used as pail. 3 or 5 gals.

F. Double Wall Fountains. No gushing or overflow. Special pan prevents wading, keeps water clean. Ruggedly built. 3, 5, 8 gals.

*Trade Mark

A. Roto-Vent®. With revolving turbine head. **B. Revolving Head** Ventilator. Both freeze-proof, bird-proof. Galvanized steel. 12- or 18-in. flue.

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Tested and Proved
POULTRY EQUIPMENT

PHOTO BY E. SHAFER

Can you name this well-known breed?

Puppies can fool you. They all start out cute and cuddly—but from then on, anything can happen!

It's embarrassing to think you're getting a small round dog—and then see him turn into a rangy giant! But if you get a pedigree with your dog, you know what to expect. He's "trademarked" as a cocker, or a kerry blue, or a collie.

In fact, that's one of the reasons for trademarks, isn't it? They protect you against the unexpected. You see a familiar brand name, and you know you can take the article home with confidence.

Most manufacturers respect their trademarks because they know that you respect them. Only after a product has proved itself, through careful tests and daily use, will they let it wear an honored brand name. And whenever they can make it better than the next brand, they do so gladly.

This competition is one reason you're sure of finer and finer values from the brands advertised in this magazine. Get to know them well, and then *name* your brand—to better your brand of living!

Oh yes—the puppies in the picture above are Miniature Poodles.

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Livestock news

From page 176

How much protein to add with good grass silage?

None, says Dr. A. L. Neumann, head of beef-cattle work at the Illinois Experiment Station.

In recent wintering trials, calves receiving ground shelled corn plus grass silage gained faster and more cheaply than calves getting a good protein supplement with grass silage.

One lot of 400-pound calves got 3½ pounds of ground shelled corn plus the grass silage; another lot of calves of the same weight were fed 3½ pounds of Purdue supplement A with the silage. Those getting the corn with the grass silage put on a pound of gain for only 14 cents. Calves fed Purdue supplement A plus silage made a pound of beef for only 21½ cents.

Doctor Neumann says these results can be expected, since good grass silage contains all the protein, vitamins, and minerals needed for good growth. All it lacks is enough energy, which is made up by the corn.

• • • •

Use of profilometer still a question mark

Is the profilometer a sure way of detecting beef bulls that will sire dwarf calves?

The doubters say the profilometer is not the answer. They do not believe detecting a bulge on the animal's head by means of a profilometer is strong enough evidence to condemn an expensive bull to the meat market. Many believe blood tests or X-ray photographs may someday serve as the means of detection.

On the other side of the fence, the profilometer breeders say the equipment has been put together by careful scientists. Already some buyers will not purchase a bull unless a reading with this equipment has been made.

The proponents—and they include several scientists of the United States Department of Agriculture and the University of California—point out that careful research shows the findings with this equipment accurate with respect to mature horned Hereford bulls. And recently the man who developed the profilometer, Dr. Paul W. Gregory of the University of California, stated that newer tests indicate accuracy for bulls as young as 15 months of age. These men do not argue against the possibility of better determinants being developed later. But they point out the profilometer is here and can be used now.

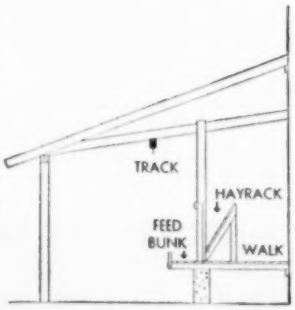
College workers who have handled the equipment say that a person can be shown how to take profiles rather easily, but interpretation of the measurements should be made by thoroughly trained individuals.—*H. D., California.*

Double-duty hay and feed rack

Building a feeding shed along the side of their barn has enabled the Warne Brothers, Romulus, New York, to save time, labor, and money.

The shed is 14′ wide, has a concrete floor. The feed rack is built to handle hay, silage, or grain.

Feed rack saves hay. Cattle can't pull out more than a mouthful at a time because of the 5″ spaces between the vertical slats. Thus, hay isn't trampled underfoot and wasted. The sloping back of the rack helps livestock pull hay down and out. The trough catches hay leaves which are eaten later.



Sloping back holds hay against slatted wall, is 20″ wide at the top. Rack is filled with hay and grain from the walkway behind it

Photograph: Knapp

Slatted wall is made of 2x4s spaced 5″ apart. Wall is 36″ in height. Trough in front of wall is 18″ wide, 6″ deep. Note track for silage car above the feed trough

Need facts on insurance

Many farmers today are buying the wrong kind of insurance, economists believe. That is, they put *too much* emphasis on the investment features—and *underestimate* protection. This is particularly true of young farmers.

For instance, a Pennsylvania study shows that 62 percent of all life insurance policies held by farmers in that state are of the endowment or limited-payment type. *Look at it this way:* A young man struggling to provide for a growing family—and pay for a farm—usually has a limited amount of money to put into life insurance. His farm income naturally will be used first to pay living expenses, second to pay farm-operating expenses, and third, to pay on his indebtedness.

Here's an example: Prof. R. S. Smith, of Cornell University, cites these figures. Suppose a young farmer, say 25 years old, finds that he can put $200 a year into life insurance. At his age, his $200 would pay premiums on any one of these:

- A $4,000 20-year endowment policy.
- A $6,000 20-payment life policy.
- A $10,000 ordinary life policy.
- A $24,000 10-year term policy.

These figures may vary some, but clearly show the difference in costs between policies which stress *protection* and those which stress *savings*.

A life insurance program should be tailored to fit the needs of the individual family. A young man heavily in debt for his farm—and who has a growing family—has an urgent need for life insurance protection. But he seldom is in a position to use life insurance as an investment—because the farm has first call on the money he has to invest.

As he becomes more firmly established, he can change some of these policies to the investment type, and add policies which stress savings. **END**

YOU NEED TO KNOW

Feed: Can *you* handle it faster, easier? Page 45.

Chicks: Does right start mean more eggs? Page 50.

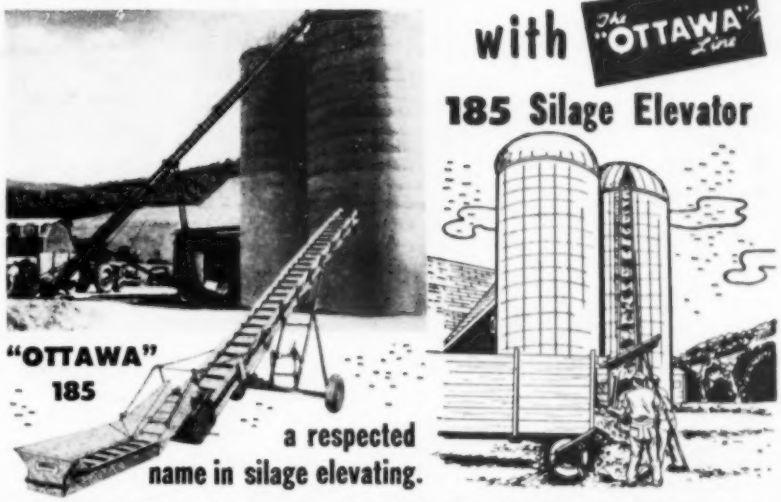
Sows: Do farrowing stalls save pigs? Page 51.

Hay: What can be done about quality? Page 52.

Machinery: Like to see new equipment? Page 56.

CROP HANDLING on the move with The "OTTAWA" Line

185 Silage Elevator



GIVES YOU ALL THESE SILAGE ELEVATING ADVANTAGES

- **ECONOMY — Utilizes any type power. A 3 H.P. electric motor will handle requirements. Elevates up to a TON A MINUTE and absolutely will not plug up.**
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- **BETTER FEED QUALITY — The stems and leaves do not become separated elevating the "OTTAWA" way. The silage is in a more palatable and natural state. Other methods tend to blow a certain amount of food value out in dust. Recognized by Agricultural Stations and Universities as giving a better quality feed and operating economy.**

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The "OTTAWA" Line — "THE PIONEER LINE SINCE 1859"

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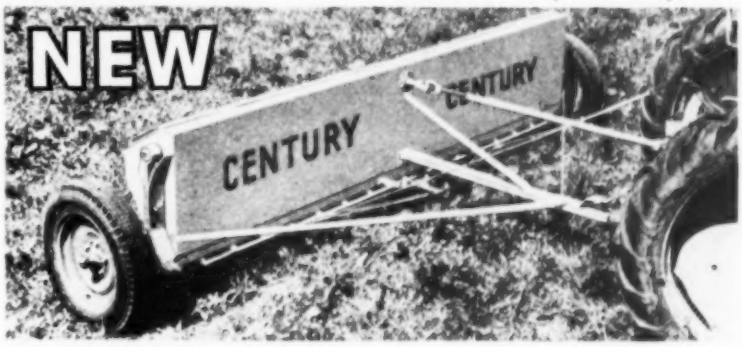
PTO SPREADER

Spreads any fertilizer . . . sows most seeds . . . or your money back



Spread your fertilizer in half the usual time at 12 to 15 mph. Exact rate per acre at any speed. No slipping on rough, wet or frosty ground. And, operating from the PTO, this spreader cleans itself, standing still, in 10 minutes or less PTO plus an entirely new agitator principle, **chain-saw action**, makes this unusual guarantee possible: **Guaranteed**—in writing, to spread any commercial fertilizer in any condition and sow seeds from clover to soybean. There's also a two year guarantee against agitator breakage or excessive wear. But this is only part of the story. See Century's absolutely amazing new spreader with dozens of revolutionary new features at your dealer's. Send coupon for illustrated brochure.

Century Engineering Corp. Cedar Rapids, Iowa

Send me more information on your new
☐ PTO spreader ☐ PTO seeder

Name _____

Address _____

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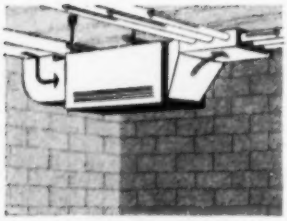
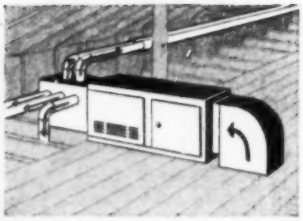
See Century's grass and legume seeders, too. PTO driven. Mount on tractor, land roller or packer.

CENTURY ENGINEERING CORPORATION

Wall diffuser spreads air over wall, window area; is made to prevent dirt marks



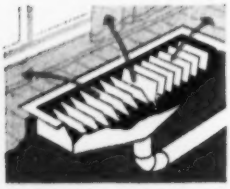
Compact furnace hangs from joists in basement, crawl space utilizing hard-to-find space well



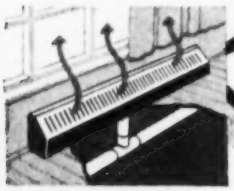
Attic furnace might be an answer for your installation. Pipes must be well insulated to prevent heat loss

Counter-flow furnace, in large drawing, fits in first-floor closet. Air is blown out at bottom rather than out at top as in type usually put in basements

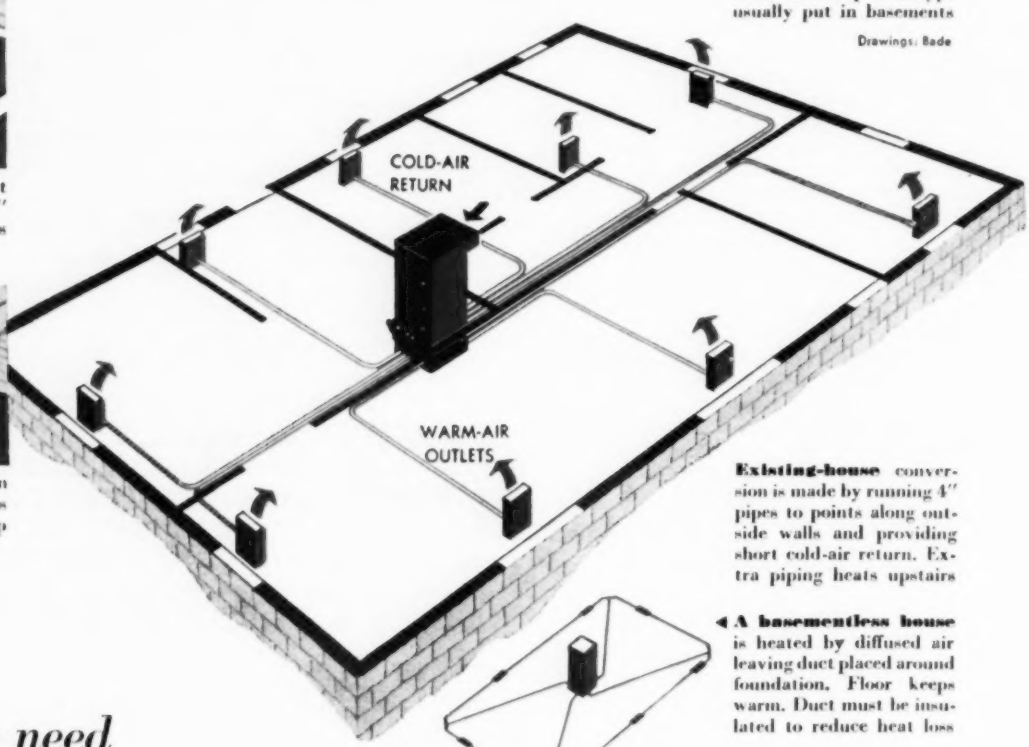
Drawings: Bade



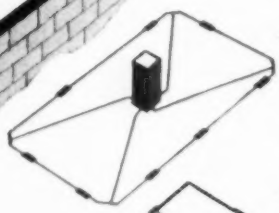
Floor diffuser is about 2"x14", located 7" to 9" from wall to clear draperies



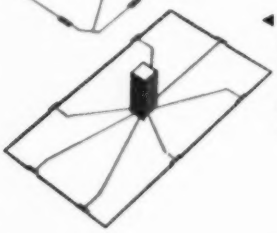
Baseboard register can be extended. Other types have narrow slot along top



Existing-house conversion is made by running 4" pipes to points along outside walls and providing short cold-air return. Extra piping heats upstairs



◀ **A basementless house** is heated by diffused air leaving duct placed around foundation. Floor keeps warm. Duct must be insulated to reduce heat loss



◀ **Crawl space** under house is adapted to economical radial-type system. Pipes must leave furnace, enter diffusers at right angles for good air distribution

What you need to know about...

Home heating

By S. S. DeForest

New heating systems *can* be installed in old farmhouses. Even if your house is 50 or more years old. And the newest ideas needn't cost more than old-time systems—in fact they are sometimes *cheaper*. That's because you not only get more heating comfort with fewer drafts, but higher efficiency resulting in lower operating costs. And you can cut installing costs by doing part of the work yourself.

Let's look over some of the new developments in heating and see how they could be applied to your home.

You can use "warm air heat"—where *warm air* is forced through distribution ducts to heat your house—or "wet heat"—where *hot water* or *steam* is carried through pipes to the rooms to be heated. With proper design and installation, either type of heat will give winter comfort "you never thought possible." Yes, even in older farmhouses.

In both types of heating systems shown here, the units or devices used in each room are on an *outside* wall, preferably under a window. This principle, called *perimeter heating*, is considered by the heating trade as best. Here's why:

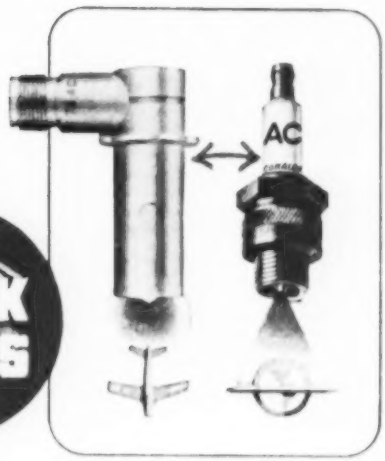
Outside walls and windows account for 60 to 80 percent of the total heat loss from a house. By using a device to *blanket* the exterior walls—whether it be [*Turn to page 182*

ACs with Patented *CORALOX* Insulator are Built for Both!

The *CORALOX* Insulator of the AC starter-plug used in jet planes must withstand terrific temperatures. This fact is important to car owners because the insulator of the AC Spark Plugs used to fire automobile engines is of the same composition as that used in the jet plug.

CORALOX, no matter how high the engine temperature, won't let the current "short" and cause your engine to misfire. And the great strength of *CORALOX* permits the use of longer, thinner insulator tips which heat up quickly to burn away oil and wet carbon deposits. That's why a new set of ACs, with insulators of the same patented *CORALOX* used in AC jet engine plugs, can step up power and save fuel for you in any farm engine—car, truck or tractor.

AC SPARK PLUGS



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AC SPARK PLUG DIVISION GM GENERAL MOTORS CORPORATION

POWDER • LIQUID
for coal, coke, wood • for oil, kerosene

CHIMNEY SWEEP

"Sold on a money-back guarantee"
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Accept No Substitutes

G. N. COUGHLAN CO., WEST ORANGE, N. J.

CLAY Fully Automatic
BARN CLEANER

3 SIZES

MODEL A . . . For small barns—up to 25 cows. MODEL B . . . For medium barns—25 to 50 cows. MODEL C . . . For large barns—50 to 100 cows.

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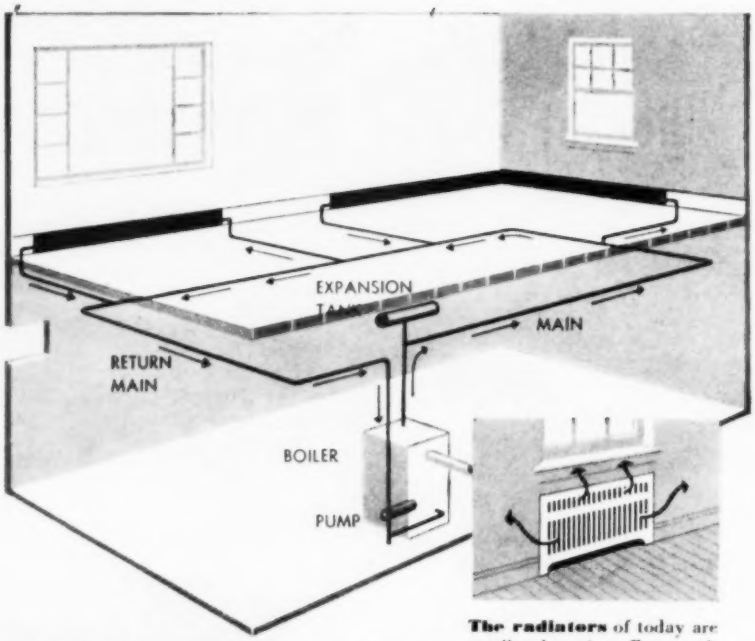
I have _____ cows. I am building _____
I am remodeling _____
NAME _____
TOWN _____
STATE _____ RFD _____

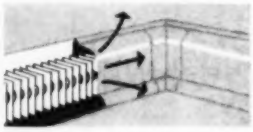
Home heating

From page 180

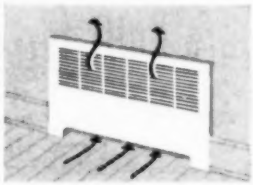


Forced hot-water heating system is adaptable to any room heater shown at right. It has water pump, and provision for year-round *domestic* water heating

The radiators of today are smaller, but give off as much heat; can be recessed in wall



Baseboard units are full radiant, hollow; or have slots for air to move through fins



Convectors consist of finned cast iron, small tube core in cabinet for effective air flow

New developments in "wet heat" systems may make it best for you

warm-air diffusers shown on page 180 or a room-heating unit shown on this page—cool air dropping off the windows and walls tends to mix with rising heated air. Thus drafts are "stopped cold" before they can get started. The temperature difference between floor and ceiling is small, and floors are warm, even in basementless houses. No air is blown on individuals—you feel comfortable.

Here are some specific points you'll want to think about before you decide, finally, on a system for *your* farm home.

Perimeter heating vs. conventional warm-air system. Conventional warm-air central heating systems required that warm-air registers or diffusers be placed high or low on *inside* walls. Grills under windows or near doors "caught" cold air before it could cause drafty conditions and returned it to the furnace.

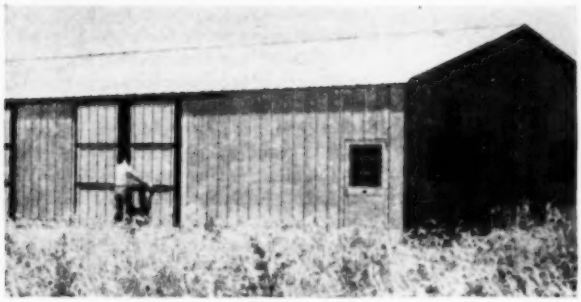
The perimeter system, with it's blanketing effect on cold walls and windows, does not let cold air get to the floor. Consequently, floor-to-ceiling temperatures are more nearly the same, and air returning to the furnace is not cold enough to be felt as a draft. Return air needn't be isolated by a cold-air return system and can be returned to the furnace through the rooms. Result—perimeter heating costs less because a less complicated return air system is necessary.

Heating upstairs rooms. You might have to take up flooring to get to outside

[*Turn to page 184*

Consider these heating ideas:

- Control fan or circulating pump to operate continuously below 35- to 40-degree outside temperatures; vary temperature of air or water.
- Use an "anticipating" thermostat outside to shut down or start burner as weather changes.
- Certainly *plan* for summer cooling as you plan your heating system, whether you think you want it later or not.
- Perhaps you'll want "zone" control so you can maintain bedroom temperatures different from those in other areas.
- You can save fuel by turning down thermostat 5 to 10 degrees at night.
- In a hot-water system, you can heat domestic water year round with special heating unit.
- Plan to install some of your heating system yourself to cut costs.



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Successful Farming, 1716 Locust, Des Moines 3, Iowa

Home heating

From page 182

walls, although copper tubing for *hot-water heating* is easy to "snake" between floors to room units located on outside walls.

To get *warm air* upstairs, you can run a "trunk line" from the furnace to the attic. From the top, small insulated ducts can be used to take heat to ceiling diffusers placed along outside walls.

Or, you can run individual warm-air ducts up interior walls from the furnace and install air diffusers low or high in bedroom interior walls. It is a satisfactory compromise for bedrooms.

Continuous air, water circulation. To keep the furnace or boiler from overcontrolling or undercontrolling, new controls now operate the fan or water-circulating pump continuously when outside temperatures drop below a predetermined level, usually about 35 or 40 degrees.

Air or water temperatures are varied, by the burner cycling on and off, to meet heating requirements called for by the thermostat. As long as the fan or circulating pump is "on," gentle air movements tend to prevent cold air from settling to the floor and warm air from rising to the ceiling. Radiant heat rays from hot-water units help provide comfort without raising room temperature. Result—room temperatures are more constant.

Thermostat techniques. Locate the thermostat on an inside centrally located wall. Be sure it isn't near or across from a fireplace, over a lamp, radio, or other source of heat. And don't put it on a cool wall or behind a door.

You can save between 5 to 8 percent of your fuel by turning your thermostat down 5 to 10 degrees at night.

Zone control. Either warm-air *or* hot-water systems can be adapted to zone control. It's especially desirable where you want to keep your living area at a different temperature than the bedrooms, or where you want to locate a thermostat in each room. One furnace or boiler is used, but a modified distribution system is required to do the job correctly.

Anticipating thermostats. In a heating system where large masses of concrete or other material are relied upon to heat the house, as in panel heating, the panels may tend to overheat or be slow in supplying heat during sudden weather changes. A special thermostat outside the house will "anticipate" the weather change and precontrol air or water temperature so panel temperatures will be nearly in balance with the house heat loss. Principle works with other systems, too.

Cooling. Cooling units can be added to warm-air systems, now or later. If you're thinking about installing a heating system, plan for cooling, too, because air ducts can be sized to handle both. You can take advantage of your filter and fan for cooling as well as heating.

If you desire hot-water heating, cooling can be supplied later by installing individual room coolers. Or, if you plan ahead, you can use new-type convectors equipped with fans and air filters. In winter, hot water from the boiler heats the house; in summer, chilled water through the same pipes from a refrigeration machine cools the house. Air, whether cooled or warmed, is circulated by the fan and filtered. You can even provide a fresh-air inlet to each unit.

Domestic water heating with boiler. *Year-round* heaters for domestic water can be attached to boilers. They immerse in the boiler water and operate even though boiler water is not required to heat rooms.

Do-it-yourself heating. New warm-air ducts and copper plumbing go together easily. That means you can install some of your new heating system yourself. All parts of warm-air ducts come prefabricated. Special connectors take only a twist of the wrist and a "snap" to fasten them securely. Ducts for warm-air perimeter heating can all be 4-inch size—three will fit in the space between joists. When you need more heat in a room, add another duct rather than make a single one larger.

For hot-water heating, it's easy to snake copper tubing through wall and floor cavities. Connecting them is easy. Little special equipment is necessary.

But, *here's a caution*—it takes the experience of someone with know-how, like your heating-system dealer, to *design* your system.

One heating company is promoting an arrangement whereby the dealer and buyer work together in installing new heating systems. The dealer designs the system, and sets the furnace. Then the buyer cuts holes where specified, connects the ductwork, and if he feels qualified, does the electrical work. Next, the dealer starts the system, adjusts it, and provides a year's free servicing. It is said some buyers have saved $150 or more, depending upon size of the system and how much work they do themselves.

Heat pump. Using electricity as fuel and requiring no chimney, the heat pump is a revolutionary method of heating. It removes heat from the air or ground and blows it into your house. It works best by using water from a deep well or water that has been pumped through a network of coils buried in the earth. In mild climates where the temperature remains above 30 degrees, sufficient heat to heat a home may be taken from outside air.

The house can be cooled in summer by reversing the process and pumping the house heat into the earth or outside air.

Panel heating. This type of heating is rather limited for existing houses, since it requires spaces above the ceiling or below the floor for air or water pipes. It can be provided in new houses or possibly in old houses where high ceilings can be lowered to cover the heating ducts or pipes. Panel heating relies on radiant heat from the warm surfaces to heat the house. END

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Dr. Naylor's MEDICATED Teat Dilators

Veterinary

New vaccine to beat infectious bronchitis

The Bureau of Animal Industry recently licensed the first vaccine for infectious bronchitis of chickens in the United States.

It's a live-virus type to be given intranasally. Vaccination is recommended when birds are about 1 week old. Immunity during the laying season is also possible when pullets can be vaccinated a month before they start laying.

• • • •

Sanitation can help prevent ringworm

The bald spots, on the cow below, are ringworm lesions. The cow is a 4-year-old, but ringworm is usually seen on calves and yearlings that have not become somewhat immune through previous attacks of the disease.

Photograph: Bailey

A good, thorough disinfection of pens which infected cattle have used will prevent further trouble with ringworm. For treating infected cattle, tincture of iodine is recommended.

Ringworm is caused by a fungus often found in dark and filthy quarters.

• • • •

Safest thing to do when bull pulls ring

When a bull tears the ring out of his nose, putting another ring through the upper flap of his nose rarely works. The soft tissues won't hold a ring long, and may be dangerous if the ring comes out when you're leading him.

Better ideas are to use a heavy halter, or a short length of chain around his neck. Leave one end of the chain dangle, so it can be picked up quickly in case of trouble.

helps

Injecting insecticides for bugs still studied

The United States Department of Agriculture is continuing its look into the possibility of killing insects by injecting chemicals into cattle.

When the insecticide is injected under the skin, it travels in the blood, killing insects that bite or feed on cattle. The amount injected is not great enough to kill cattle, but will kill bugs.

Recent tests show that lindane kills deerflies and mosquitoes when injected, but that aldrin, dieldrin, allethrin, and heptachlor don't affect these insects. Lindane controlled deerflies from 8 hours after injection up to 2 weeks.

About 60 to 70 percent of the mosquitoes biting cattle injected with lindane, died. The effect of lindane lasted up to 3 weeks for mosquitoes.

Lindane also looks promising in controlling hornflies on cattle. Scientists are also experimenting with other chemicals —looking for better ones to be injected.

• • • •

Vicious-acting animals may have rabies

Recently we saw a sow that became vicious and attacked several other hogs, so her owner shut her up. She promptly chewed her way out of the pen, and started down the road.

She attacked the owner when he tried driving her home, and raged around until she collapsed in an overheated condition. A laboratory examination showed that the sow had rabies. It doesn't pay to take chances with animals that suddenly show signs of becoming vicious.

• • • •

Hog oilers can cause mysterious deaths

When hogs start dying for no apparent reason, check your hog oiler as one of the possible causes.

In one case where a veterinarian was called about hogs "mysteriously" dying, he found a leak in the hog oiler. Hogs were poisoning themselves by drinking oil escaping from an oiler in the feedlot.

Not all oils used in oilers to control lice, mange, and mites are poisonous. But you'd better check your oiler to make sure.

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The power take-off of your standard make tractor powers HOPTO'S heavy-duty hydraulic system! By effortlessly operating the conveniently located controls you can dig drainage ditches, excavate, handle building material, dig footings and foundations . . . hundreds of *profit-producing* jobs around your own place AND profitable custom jobs for your friends and neighbors!

HOPTO is a heavy-duty unit that contractors are using, yet it's the most profitable piece of farm machinery you can buy! One man and the *HOPTO can do more work in a half* a day than one man can do in a week of twelve hour days! Get the facts and you'll approve the purchase of a *proved* HOPTO!

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Farmers are finding a way to solve this replacement problem *when the time comes*, by saving regularly in U.S. Series "E" Savings Bonds *now*. $300 in bonds this year, for example, grows to $400 in less than 10 years . . . $568.72 in less than 20.

Bonds can help your dreams along, too. You've always a ready source of cash to build a new barn, or maybe see you through serious illness or crop failure.

You'll find there's no safer way of saving for tractor replacement than by buying U.S. Savings Bonds *regularly*.

The U. S. Government does not pay for this advertising. The Treasury Department thanks, for their patriotic donation, the Advertising Council and

Magazine Publishers of America

Here's how to check your

Bank statement

By John Y. Beaty

One of the more important pieces of mail the carrier leaves in your box each month is the bank statement. Don't immediately throw it in the desk or kitchen cabinet to be forgotten. Why? Because it's the report to you on the business you've done through the bank during the previous month.

You need to examine the statement for your own protection and peace of mind—a bank employee may have made a mistake in figuring your account. And you need to make sure your records and the bank's records agree.

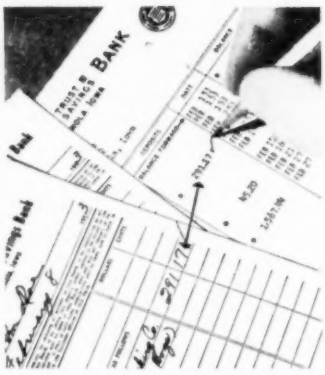
Checking your records and the bank statement for accuracy can be a simple procedure—if all your checks have been properly written and the amounts listed on the stubs, if all your deposits have been recorded on the stubs, and if you have accurately added and subtracted in getting your balance, *allowing for bank charges*. By following five steps you can do the job quickly and accurately.

First step. *Compare the checks returned from the bank with the statement.* As you go through the checks, put a mark beside the corresponding amount listed on the statement under the column headed "Checks." (See picture above.) That way you make sure you have a canceled check for an amount equal to each amount deducted from your account.

If there is an amount charged to your account under the heading of "Checks" for which no canceled check has been returned, you should confer with your banker at once. First, however, make sure you haven't overlooked a check.

Look on the back of each check to make sure it is endorsed. An endorsed check serves as a receipt and is legal evidence of payment.

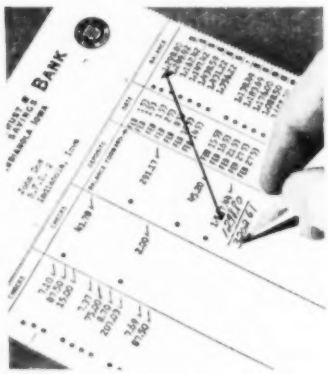
Second step. *Compare your duplicate deposit slips or deposit-book entries with the amounts listed on the statement under the column headed "Deposits."* Mark these off on the bank statement to make sure they have all been listed. (See picture above.)



If you have a duplicate deposit slip for which the amount hasn't been listed on the statement, it's usually because the deposit slip was made after the statement was prepared. In that case, the amount will show up on next month's statement. But make *sure* it shows up next month.

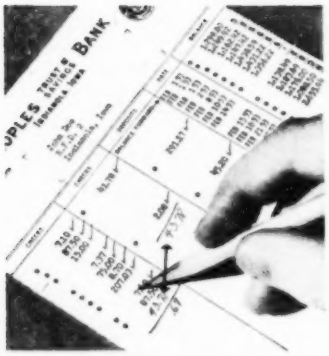
Third step. *Make sure the last balance listed on the bank statement is correct.* You will notice that the bank prints a new balance on the right side of the statement every time a check or a deposit comes in.

Your last balance is the net total of your deposits for the month, plus the balance brought forward from the end of the previous month, minus checks paid during the month.



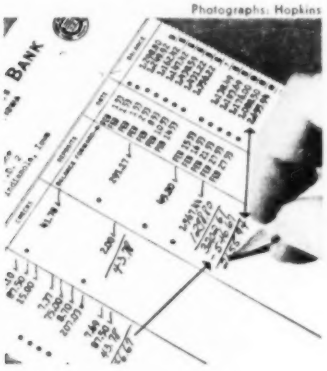
To check it, first add the balance forward—it's listed at the top of the "Balance" column—to the month's deposits, listed in the "Deposits" column. (See picture above.)

Then add all the checks paid during the



month. (See picture above.) The checks may be listed in several columns if more than one came to the bank for payment during the same day.

Photographs: Hopkins



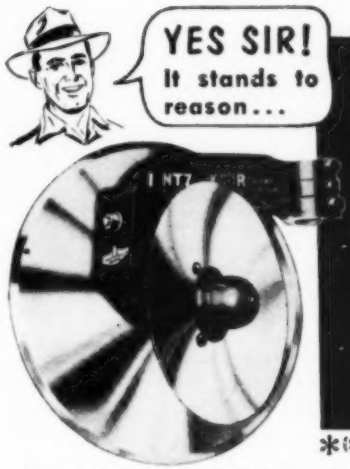
Subtract the total of these checks from the total you got under the "Deposits" column. The result should be the same figure as the last balance listed in the "Balance" column. (See picture above.)

If there is a difference, check your figures again. If you can't find an error on your part, take the checkbook, deposit slips, the returned checks, and the statement to the bank. Go over them with your banker to find the mistake.

Fourth step. ***Compare your stubs with returned checks.*** Arrange the canceled checks in order by number and compare them with the stubs in your checkbook. Put a heavy mark on the stub of each check that has been returned to indicate the check has been paid.

Fifth step. ***Make sure the last balance in your checkbook is correct.*** After you have marked the stubs of all checks returned, you may find that some checks had not been cashed before your statement was sent to you.

Add together the amount of these uncashed checks as shown by your stubs. Subtract this figure from the last balance shown on the bank's statement. Then add any deposits that you made after the statement was figured. They will not be listed on the statement. This should give you the balance shown on your last used stub. If they don't agree, check again to find the mistake and correct the last balance shown on your checkbook stub. Now your records are accurate. **END**



TWO blades cut better than ONE

that's why

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Reg. U. S. Pat. Off.

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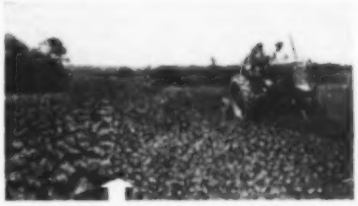
*(See official tests below)

Over a hundred thousand farmers have used and praised the original Lantz Kutter-Kolter during the past 15 years. Only Lantz makes 2-bladed coulters, and it is easy to understand why two blades are better than one. They produce a *double slicing action* . . . enable a moldboard plow to *cut through* trash, roots and stubble and aid in covering. You'll be proud of your plowing, happy about the time and gas saved by avoiding frequent stops to clear a clogged plow.



Furrows to the right of arrow show difference in plowing after Lantz coulter was attached to plow.

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New engineering developments, based on 15 years' experience as coulter specialists, give the new Model B some extra advantages. Simplified construction makes it lighter, without sacrificing strength. It has greater adaptability to plows with limited clearance, also to certain *left hand or 2-way plows.* Disc blade crosses path of coulter blade to give rotary scissor action without binding. (See arrows in cut.)

***Dynamometer tests** (recorded pounds pull) prove that Lantz 2-Bladed Coulters pull no harder than other special coulters. They save costly friction and wear on landside of moldboard because they produce *less* side draft. The Kutter-Kolter can be used as a single-blade coulter where trash is no problem.

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Name.....

RFD.....Town.....

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E. Skrudland, Lake Geneva, Wisc.

Decorating advice. Stores offering Successful Farming's home planning service are listed on page 133. Visit the store nearest you for help with your decorating problems.

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The Farmer's Trading Center is read by millions. Use it to boost your sales.

Successful Farming guarantees every advertisement it prints. See page 4.

FOR FARM WOMEN

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Psst! Lady! Your walls need Rad for that new lustre. Only $1.00 postpaid.
Rad Co., Willernie, Minn.

Decorating advice. Stores offering Successful Farming's home planning service are listed on page 133. Visit the store nearest you for help with your decorating problems.

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Nylons 8c pair, Anklets 12c pair, Socks 9c, Print 17c, Panties 12c, Dresses $1.95, Slips 47c, Undershirts 17c, Rugs 70c, Robes $1.65, Spreads $2.65, $70.00 Watches—$18.95, Jewelry Sets $1.25, Pens 8c, Combs 1c, Aspirin $1.00-1,000, Brushes 9c, Razor Blades 5-2c, Electric Razors $2.00. Complete Stock List, Picture Catalogue, 25c if sent immediately.
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STROMBERG LARGE TYPE DANISH BROWN LEGHORNS
Our beautiful NEW LEGHORN with golden hackle. Larger, produces more and larger eggs than standard Brown Leghorns. Extra hardy, no "blow outs". Originally imported from Denmark. Other Stromberg Pedigreed Sired varieties, White Leghorns, White Rocks, Rhode Island Reds, Ancona. No. 171's 3-way cross, Black Minorcas. 3 to 4 weeks old chicks available. Stromberg Scientific Breeding Plan and beautiful 4-colored catalog **Free.**
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Quick . . . Convenient
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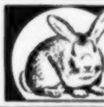

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Choice of SUPER-LINE HY-BIRDS, Speckled-Romans, White or Barred Hollands given to dozens of Contest Winners.

Only folks like yourself are being invited to have some fun unscrambling the names of the four foreign countries, so we'll know who to send the **6,100 No. 1 Mating chicks** to this spring in high-speed laying flocks of from **100 up to 1000, AT NO COST** to winning poultry raisers. We want to introduce our new "Super-Line Hy-birds" and Speckled Romans for heavy egg production and high livability or you can choose White Leghorns, White Hollands or Barred Hollands.

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(The Land of Pyramids)

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3. RAYMEGN
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4. DANNGEL
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EXAMPLE
PINSA
(The Land of Bull Fighters)
Answer
SPAIN

EASY RULES: It costs nothing to enter this interesting contest. Just unscramble the names of the four Foreign Countries and write in the correct names in the entry coupon. The 1st prize winner **receives 1,000 No. 1 Mating chicks** in their choice of Speckled Romans, new "Super-Line Hy-birds" White Hollands, White Leghorns or Barred Hollands. **The 5** second prize winners **receive 500 chicks each, the 7** third prize winners **receive 200 chicks each** and **the 12** fourth prize winners **receive 100 chicks each.** Tying entrants will be required to finish the following sentence in 20 words or less, "I would like to raise healthy layers because . . . .". Duplicate prizes paid in case of final ties. Decision of the judges will be final. Entries judged on correctness and originality. All entries must be postmarked before midnight May 30, 1954, and winning entrants will be notified promptly by mail.

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RUCKER'S CHICKENS, Mrs. Ann Davies (Prize Manager)
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The names of the foreign countries are—(fill in below):

1. . . . .
2. . . . .
3. . . . .
4. . . . .

Name . . . .
Post Office . . . .
R.F.D. . . . . State . . . .

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☐ Send on Easy Payment Plan. I'll pay mailman $4.95 plus postage, then 4 monthly payments of $6.75 each.
Dealers: Write for Special Offer

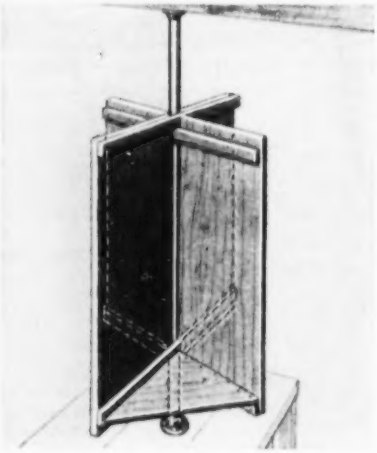
All around the farm *A page written by our readers*

To attach or detach a ball hitch on my swinging drawbar, I had a sleeve made to fit the drawbar. Ball hitch is screwed permanently to this sleeve.

When I need a ball hitch I slip sleeve over drawbar and insert pin that holds it in place. This saves lots of time when changing hitches.—*G. M., Missouri.*

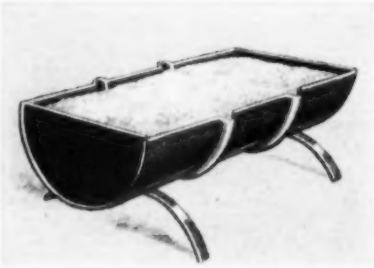
To cut glass, I lower the blade of my bench saw below the table surface. Then I lay the glass on the table and clamp the guide in the correct place where the glass is to be cut. The glass cutter is drawn down along the guide. —*B. M., Wisconsin.*

The revolving tool rack in my shop is located at the end of a fixed bench. For a pivot, I fastened a ¾″ pipe to bench and to ceiling above, first setting a collar around pipe to rest on bench and support the boards forming the wings. The 40″ boards are cleated top



and bottom on both sides, and the pipe is enclosed by the cleats.

The second set of wings is put on in the same manner, with cleats above and below those on first pair of boards (as shown). I fasten triangular shelves to the bottom cleats. This serves as handy tool shelf, and braces the wings. —*H. W., Iowa.*



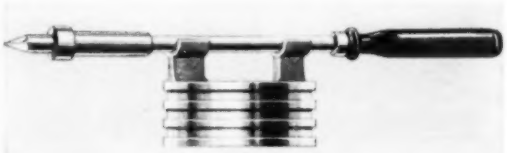
To make a handy welding table, cut a 15- or 30-gallon steel drum in half—lengthwise—with the torch. Then cut a tire rim in two, and spot-weld the two halves on the bottom of the barrel (as shown). When trough is filled with damp sand, it makes a perfect welding stand.

The small parts that have to be welded can be set in the sand, and the sand piled up around the assembly to hold it in any position. Danger of fire is reduced, and heat is conducted away from work.—*H. L. C., North Dakota.*

To keep countersunk bolts from wearing thin and pulling through on our moldboard plows, we build the heads up with bronze rod, using the acetylene torch. The bolt to be reheaded is left in its hole and drawn snug.

Heat applied to the bolt will bring the head to welding temperature before the heavier parts around it can absorb enough heat to become welded to the bolt. The new head exactly fits the countersink, yet can be removed just as if a new bolt were used. The excess bronze may be filed off, or it may be left as welded. The soil soon cuts it down to shape.—*K. H., Iowa.*

I made a soldering-iron holder from a discarded piston (as shown). I cut the piston through the center of the piston-pin holes. This holds the iron while it heats. The walls of the piston can be cut away or left attached, as desired.—*J. C. T., Iowa.*



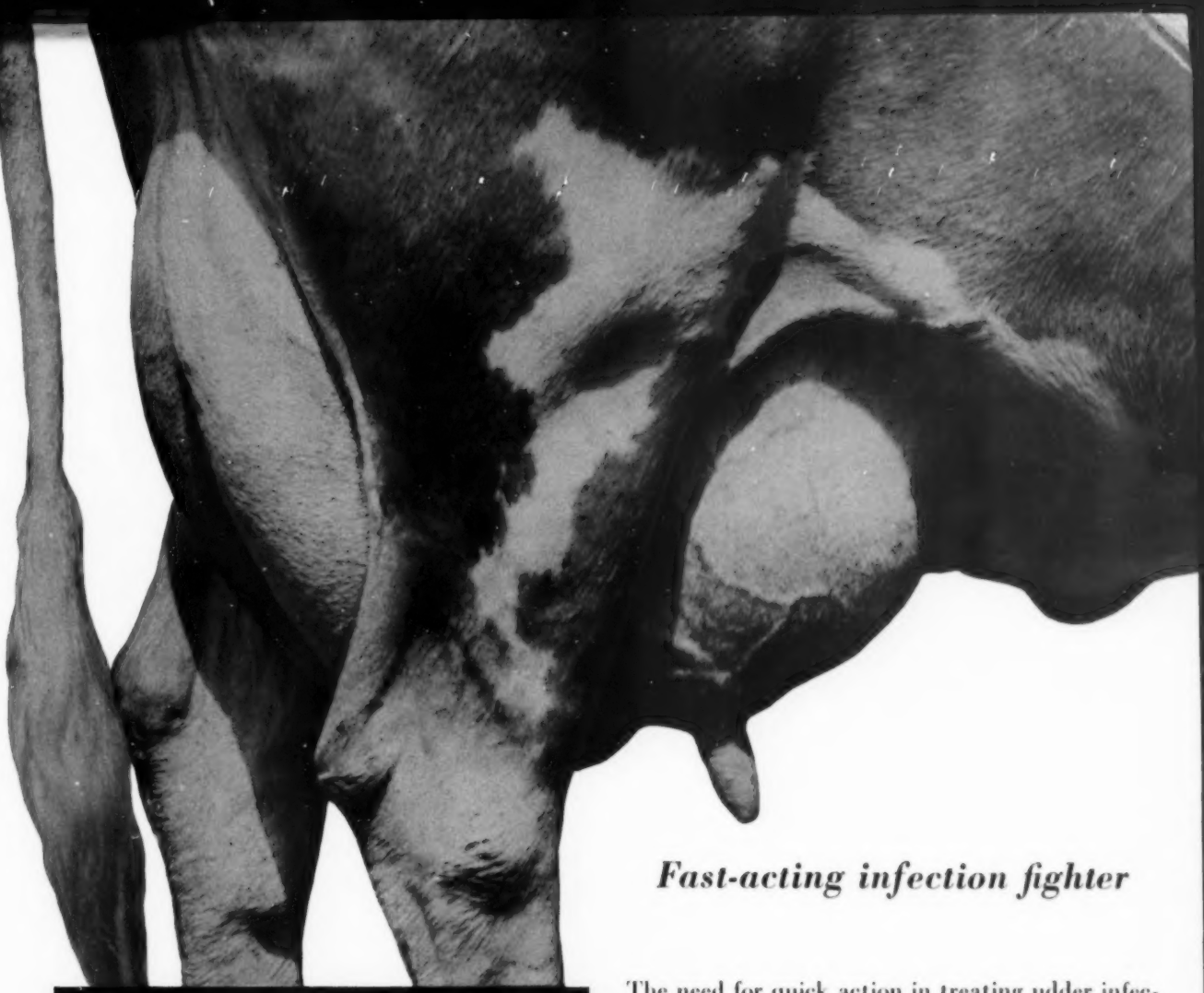
When the spring bottom of my squirt-type oilcan quit working, I made the oiler serviceable by unscrewing the spout and turning a length of coil spring down into the can. This is long enough to fit under the neck of the can and put sufficient pressure on bottom to force it back out as thumb pressure is removed. —*G. R., South Dakota.*

When sharpening rolling coulters for my plow, I use a length of pipe as a guide (as shown). It does the job ac-

curately and with little effort on the part of the operator. The pipe can be slipped out of the socket mount when not in use.—*E. J. B., Michigan.*

An excellent center punch can be made from an old rattail file. I saw off the small square handle, put the file in a vise, and break it for the length wanted. It is sharpened on an emery wheel. The top is soft enough to pound on without chipping and the sharpened end is the hardest center-punch point I ever saw. It never dulls or chips.—*I. K., Nebraska.*

Successful Farming invites you to share your ideas with the rest of our readers. We pay $5 for each item upon publication, but regret we cannot return those we don't use.—*The Editors*



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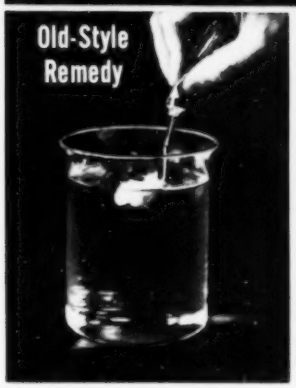

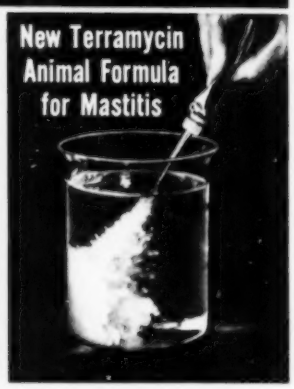

WHICH WILL CURE MASTITIS FIRST?

Squeeze part of a tube of any old-style grease or wax base mastitis ointment into a bowl of water, warmed to body temperature. See how it lays in an oily blob on top of the water? It may never dissolve. Can you expect medication within that blob to be effective against fast-spreading infection in all parts of the quarter?

Now squeeze an equal amount of new Terramycin Animal Formula for Mastitis into another bowl of warm water. It disperses instantly into all parts of the water. See why it acts so fast against mastitis? In seconds it is diffused throughout the milk, releasing the power of Terramycin in one smashing blow against infection!

The need for quick action in treating udder infections brings you new Terramycin Animal Formula for Mastitis . . . a new liquid preparation (in a handy infusion tube) that releases the power of this famous antibiotic within seconds after application, allowing effective concentrations of Terramycin to quickly penetrate the affected quarter! Most cases are cleared up in 12 to 24 hours, valuable cows quickly restored to production. Ask for Terramycin Animal Formula for Mastitis at your local animal health headquarters.

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World's Largest Producer of Antibiotics

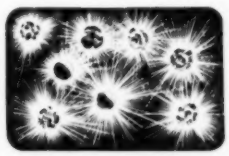
AMAZING COFFEE DISCOVERY!

Not a powder! Not a grind! But millions of tiny "FLAVOR BUDS" of real coffee...ready to burst instantly into that famous Maxwell House flavor!

Utterly unlike old-style "instants"... just as quick but tastes so different! In the famous Maxwell House kitchens, this superb, roaster-fresh coffee is actually brewed for you. At the exact moment of fresh-brewed perfection, the water is removed—leaving the millions of miracle "Flavor Buds"!

100% pure coffee! You just add hot water—and the "Flavor Buds" flood your cup with coffee as rich and delicious as the best you've ever brewed! *Saves money, too!* The large economy size saves up to 75¢, compared to three pounds of ground coffee!

See how the Flavor Buds "come to life" in your cup!



Magnified view of miracle "Flavor Buds" at the instant hot water is added. See how "Buds" release famous Maxwell House flavor! *This* is coffee—as perfect as any you've ever tasted!

The only instant coffee with that GOOD-TO-THE-LAST-DROP flavor!

A Product of General Foods

Reach for the jar with the stars on top!